

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: January 31, 2005, 15:11:04 ; Search time 67 Seconds  
(without alignments)  
1915.053 Million cell updates/sec

Title: US-10-035-958-61

Perfect score: 223

Sequence: 1 MGWTNRLVTAAALLGLMMVV.....PTLQAPGRASEPKHKTRQR 223

Scoring table: OLIGO

Gapop 60.0 , Gapext 60.0

Searched: 1825181 seqs, 575374646 residues

Word size : 6

Total number of hits satisfying chosen parameters: 6224

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 1500 summaries

Database : UniProt\_02.\*

1: uniprot\_sprot.\*

2: uniprot\_trembl.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	124	55.6	223	1	PBPL_HUMAN
2	11	4.9	242	1	PBPL_MOUSE
3	10	4.5	151	2	Q70JR7
4	10	4.5	151	2	CAE53888
5	10	4.5	173	2	Q75QX2
6	10	4.5	174	2	Q6R3R0
7	10	4.5	174	2	Q75QW8
8	10	4.5	174	2	Q76BW3
9	10	4.5	174	2	Q76BW4
10	10	4.5	174	2	Q76CA4
11	10	4.5	174	2	Q76CC3
12	10	4.5	174	2	Q76EQ5
13	10	4.5	174	2	BAD01561
14	10	4.5	174	2	BAD01576
15	10	4.5	174	2	BAD01612
16	10	4.5	174	2	AAS00056
17	10	4.5	174	2	BAD08337
18	10	4.5	174	2	BAD08338
19	10	4.5	174	2	BAD08340
20	10	4.5	174	2	BAD02371
21	10	4.5	174	2	BAD02372
22	10	4.5	176	2	Q7FTP7
23	10	4.5	177	2	Q84XL0
24	10	4.5	177	2	Q9SXY9
25	10	4.5	178	2	Q8VWH2
26	10	4.5	179	2	Q93W19
27	10	4.5	179	2	Q93WM7
28	10	4.5	202	2	Q9VI09
29	9	4.0	131	2	Q7PHU7
30	9	4.0	131	2	Q9BH16
31	9	4.0	185	2	Q6EUF9

32	9	4.0	2321	2	Q6RSR1	Q6r5r1 meleagrid h
33	9	4.0	2321	2	Q9DGT6	Q9dgt6 meleagrid h
34	9	4.0	2321	2	AAS01711	Aas01711 turkey he
35	9	4.0	2323	2	Q6HAA3	Q6haa3 meleagrid h
36	8	3.6	107	2	Q9FW01	Q9fw01 oryza sativ
37	8	3.6	121	2	Q8KRS5	Q8krs5 pseudomonas
38	8	3.6	140	2	Q84XK8	Q84xk8 lycopersico
39	8	3.6	162	2	Q8LNF0	Q8lno0 oryza sativ
40	8	3.6	174	2	Q8LX54	Q8lx54 cynocephalu
41	8	3.6	176	2	Q6XHR8	Q6xh8 drosophila
42	8	3.6	176	2	Q9VD01	Q9vd01 drosophila
43	8	3.6	176	2	AAR10138	Aar10138 drosophila
44	8	3.6	179	2	Q6J0U4	Q6j0u4 branchiosto
45	8	3.6	179	2	AAT38121	Aat38121 branchios
46	8	3.6	237	2	Q98LS3	Q98ls3 rhizobium l
47	8	3.6	313	2	Q73P79	Q73p79 treponema d
48	8	3.6	313	2	AAS11411	Aas11411 treponema
49	8	3.6	316	2	Q837T2	Q837t2 enterococcu
50	8	3.6	317	2	Q73Y94	Q73y94 mycobacteri
51	8	3.6	317	2	AAS04379	Aas04379 mycobacte
52	8	3.6	319	1	YD84_LISMO	Q8y7a4 listeria mo
53	8	3.6	319	2	Q71ZT6	Q71zt6 listeria mo
54	8	3.6	319	2	AAT04178	Aat04178 listeria
55	8	3.6	328	1	Y630_STRP3	Q8k7u2 streptococc
56	8	3.6	328	1	Y915_STRPY	Q9a064 streptococc
57	8	3.6	328	1	YF04_STRA3	Q9a064 streptococc
58	8	3.6	344	2	Q9WWY9	Q9wwy9 pseudomonas
59	8	3.6	383	2	Q88KB3	Q88kb3 pseudomonas
60	8	3.6	397	2	Q93J54	Q93j54 streptomyc
61	8	3.6	428	2	Q9L2D5	Q9l2d5 streptomyc
62	8	3.6	439	1	AKOA_HALM1	Q9hqc1 halobacteri
63	8	3.6	518	2	Q6NCL6	Q6nc16 rhodopsedu
64	8	3.6	518	2	CAE25900	Ca25900 rhodopsedu
65	8	3.6	616	2	Q9H6K5	Q9h6k5 homo sapien
66	8	3.6	821	2	Q9G74	Q9g74 bradyrhizob
67	8	3.6	1551	1	VGLM_DUGBV	Q02004 dugbe virus
68	7	3.1	26	2	Q9PS43	Q9ps43 gallus gall
69	7	3.1	26	2	Q9PS44	Q9ps44 gallus gall
70	7	3.1	27	2	Q9PRY4	Q9pry4 gallus gall
71	7	3.1	28	2	Q7LZ56	Q7lzs6 gallus gall
72	7	3.1	71	2	Q7QM25	Q7qm25 anopheles g
73	7	3.1	91	2	Q8I7M2	Q8i7m2 amblyomma t
74	7	3.1	93	2	Q8TM00	Q8tm00 methanosarc
75	7	3.1	93	2	Q7RH88	Q7rh88 plasmodium
76	7	3.1	100	2	Q6UG72	Q6ug72 sulfolobus
77	7	3.1	100	2	AAQ73268	Aa73268 sulfolobu
78	7	3.1	109	2	Q7B468	Q7b468 pseudomonas
79	7	3.1	109	2	Q9L176	Q9l176 pseudomonas
80	7	3.1	116	2	Q9TS16	Q9ts16 bos taurus
81	7	3.1	119	2	Q7UIU5	Q7uiu5 rhodopirell
82	7	3.1	119	2	Q9KBF9	Q9kbf9 bacillus ha
83	7	3.1	126	2	Q8TWS3	Q8tws3 methanopyru
84	7	3.1	126	2	Q88RH7	Q88rh7 pseudomonas
85	7	3.1	134	1	D3_ONCVO	P54188 onchocerca
86	7	3.1	135	2	Q8F4K8	Q8f4k8 onchocerca
87	7	3.1	140	1	FLIL_BACSU	P23452 bacillus su
88	7	3.1	140	2	Q7W743	Q7w743 bordetella
89	7	3.1	148	2	Q6QXK9	Q6qkx9 agrotis seg
90	7	3.1	148	2	AAS82638	Aas82638 agrotis s
91	7	3.1	152	1	D1_ONCVO	P54186 onchocerca
92	7	3.1	152	2	Q7D0J5	Q7d0j5 agrobacteri
93	7	3.1	152	2	Q8UH39	Q8uh39 agrobacteri
94	7	3.1	172	2	Q6FIE3	Q6fie3 homo sapien
95	7	3.1	172	2	Q8BNB8	Q8bnb8 homo sapien
96	7	3.1	172	2	Q9H0W4	Q9h0w4 homo sapien
97	7	3.1	172	2	Q96AW1	Q96aw1 homo sapien
98	7	3.1	172	2	Q8C0B7	Q8cob7 mus musculu
99	7	3.1	172	2	Q8RIC3	Q8ric3 mus musculu
100	7	3.1	174	2	Q7XUF1	Q7xuf1 oryza sativ
101	7	3.1	175	1	FT_ARATH	Q9exz2 arabidopsis
102	7	3.1	175	1	TSF_ARATH	Q9s7r5 arabidopsis
103	7	3.1	175	2	Q84XK9	Q84xk9 lycopersico
104	7	3.1	175	2	AAL38819	Aal38819 arabidops

105	7	3.1	175	2	AAM91747	Aam91747 arabidops	178	7	3.1	250	2	Q84BE9	Q84be9 uncultured
106	7	3.1	176	2	Q70BM5	Q70bm5 legionella	179	7	3.1	250	2	Q84C12	Q84c12 uncultured
107	7	3.1	176	2	CAE53081	Caes3081 legionell	180	7	3.1	250	2	Q84C22	Q84c22 uncultured
108	7	3.1	179	2	Q9VD02	Q9vd02 drosophila	181	7	3.1	250	2	Q84C23	Q84c23 uncultured
109	7	3.1	184	2	Q9XHW5	Q9xhw5 oryza sativ	182	7	3.1	250	2	Q84C24	Q84c24 uncultured
110	7	3.1	186	1	PEBP_BOVIN	P13696 bos taurus	183	7	3.1	250	2	Q84C25	Q84c25 uncultured
111	7	3.1	186	1	PEBP_HUMAN	P30086 homo sapien	184	7	3.1	250	2	Q84C27	Q84c27 uncultured
112	7	3.1	186	1	PEBP_MACFA	P48737 macaca fasc	185	7	3.1	250	2	Q84C28	Q84c28 uncultured
113	7	3.1	186	1	PEBP_MOUSE	P70296 mus musculu	186	7	3.1	250	2	Q84C29	Q84c29 uncultured
114	7	3.1	186	1	PEBP_RAT	P31044 rattus norv	187	7	3.1	250	2	AAT12291	Aat12291 unculture
115	7	3.1	186	2	Q61RMO	Q61rm0 xenopus lae	188	7	3.1	251	2	Q6J5K4	Q6j5k4 uncultured
116	7	3.1	186	2	Q6GPR7	Q6gpr7 xenopus lae	189	7	3.1	251	2	Q6PL04	Q6pl04 uncultured
117	7	3.1	186	2	AAH70868	Aah70868 xenopus l	190	7	3.1	251	2	Q6PLO5	Q6pl05 uncultured
118	7	3.1	187	1	PEB2_MOUSE	Q8vin1 mus musculu	191	7	3.1	251	2	Q83US4	Q83us4 uncultured
119	7	3.1	187	2	Q8VI08	Q8vi08 drosophila	192	7	3.1	251	2	Q84C11	Q84c11 uncultured
120	7	3.1	187	2	Q8WK67	Q8wk67 oryctolagus	193	7	3.1	251	2	Q84C14	Q84c14 uncultured
121	7	3.1	187	2	Q6NYS4	Q6nys4 brachydanio	194	7	3.1	251	2	Q84C15	Q84c15 uncultured
122	7	3.1	187	2	Q7ZUV8	Q7zu8 brachydanio	195	7	3.1	251	2	Q84C16	Q84c16 uncultured
123	7	3.1	187	2	AAH63171	Aah63171 rattus no	196	7	3.1	251	2	Q99QB3	Q99qb3 uncultured
124	7	3.1	187	2	AAH66479	Aah66479 brachydan	197	7	3.1	251	2	Q9AFB5	Q9afe5 uncultured
125	7	3.1	190	2	O54564	O54564 halobacteri	198	7	3.1	251	2	Q9AFB6	Q9afe6 uncultured
126	7	3.1	191	2	O7PYP6	O7py6 anopheles g	199	7	3.1	251	2	Q9AFB7	Q9afe7 uncultured
127	7	3.1	194	2	Q6CFV4	Q6cfv4 yarrowia li	200	7	3.1	251	2	Q9AFB8	Q9afe8 uncultured
128	7	3.1	194	2	Q6MD84	Q6md84 parachlamyd	201	7	3.1	251	2	Q9AFB9	Q9afe9 uncultured
129	7	3.1	194	2	P73381	P73381 synechocyst	202	7	3.1	251	2	Q9AFF1	Q9aff1 uncultured
130	7	3.1	194	2	CA233465	Ca233465 parachlam	203	7	3.1	251	2	Q9AFF3	Q9aff3 uncultured
131	7	3.1	195	2	Q6FTN2	Q6ftn2 oryza sativ	204	7	3.1	251	2	Q9AFF4	Q9aff4 uncultured
132	7	3.1	195	2	Q9RWJ5	Q9rwj5 deinococcus	205	7	3.1	251	2	Q9AFF5	Q9aff5 uncultured
133	7	3.1	197	1	OV16_ONCVO	P31729 onchocerca	206	7	3.1	251	2	AAT09902	Aat09902 unculture
134	7	3.1	201	1	YL79_YEAST	Q6252 saccharomyc	207	7	3.1	251	2	AAT09903	Aat09903 unculture
135	7	3.1	204	2	Q751Y1	Q751y1 ashbya goss	208	7	3.1	251	2	AAT09900	Aat09900 unculture
136	7	3.1	204	2	AA554066	Aa554066 ashbya go	209	7	3.1	252	2	Q9AFG0	Q9afg0 uncultured
137	7	3.1	210	2	Q6FX79	Q6fx79 candida gla	210	7	3.1	252	2	Q9AFG0	Q9afg0 uncultured
138	7	3.1	211	2	Q85PT6	Q85pt6 anopheles g	211	7	3.1	252	2	O6LJ99	O6lj99 photobacter
139	7	3.1	214	2	Q7PWN1	Q7pwn1 anopheles g	212	7	3.1	252	2	CAG22631	Cag22631 photobact
140	7	3.1	216	2	Q9F3F7	Q9f3f7 streptomyce	213	7	3.1	255	2	Q7MDW6	Q7mdw6 vibrio vuln
141	7	3.1	220	2	Q8LIH4	Q8lih4 oryza sativ	214	7	3.1	255	2	Q8D705	Q8d705 vibrio vuln
142	7	3.1	221	1	PBPH_CAEEL	O16264 caenorhabdi	215	7	3.1	257	2	Q9VK60	Q9vk60 drosophila
143	7	3.1	222	2	Q9YDN2	Q9ydn2 aeropyrum p	216	7	3.1	257	2	Q84C20	Q84c20 uncultured
144	7	3.1	224	2	Q7OHM0	Q7ohw0 anopheles g	217	7	3.1	258	2	Q84C21	Q84c21 uncultured
145	7	3.1	225	2	Q8YD7	Q8y7d7 anabaena sp	218	7	3.1	260	2	Q72GY4	Q72gy4 thermus t
146	7	3.1	233	2	Q6FRC1	Q6frc1 candida gla	219	7	3.1	260	2	AA582054	Aa582054 thermus t
147	7	3.1	234	2	Q9UIR1	Q9uir1 caenorhabdi	220	7	3.1	264	2	Q6U683	Q6u683 plethodon p
148	7	3.1	239	2	Q94J24	Q94j24 oryza sativ	221	7	3.1	264	2	Q6U684	Q6u684 plethodon p
149	7	3.1	240	2	Q7WVU6	Q7wvu6 porphyromon	222	7	3.1	264	2	AA233481	Aa233481 plethodon
150	7	3.1	241	2	Q7PVP5	Q7pvp5 anopheles g	223	7	3.1	264	2	AA233482	Aa233482 plethodon
151	7	3.1	241	2	Q7QHV9	Q7qhv9 anopheles g	224	7	3.1	266	2	Q9RWF5	Q9rwf5 deinococcus
152	7	3.1	243	2	Q84CY2	Q84cy2 uncultured	225	7	3.1	267	2	Q7S9X5	Q7s9x5 neurospora
153	7	3.1	244	2	Q9P6X9	Q9p6x9 neurospora	226	7	3.1	269	2	Q9FAH1	Q9fah1 pseudomonas
154	7	3.1	247	2	Q84C13	Q84c13 uncultured	227	7	3.1	270	2	Q9FAH2	Q9fah2 pseudomonas
155	7	3.1	249	1	PRRG_PRR01	Q9f7p4 gamma-prote	228	7	3.1	276	2	Q8ENK6	Q8enk6 oceanobacil
156	7	3.1	249	2	Q84C31	Q84c31 uncultured	229	7	3.1	284	2	Q73L36	Q73l36 treponema d
157	7	3.1	249	2	Q84C32	Q84c32 uncultured	230	7	3.1	284	2	AA512543	Aa512543 treponema
158	7	3.1	249	2	Q9AFF0	Q9aff0 uncultured	231	7	3.1	286	1	CYSW_SYN7	Cysw syn7 mycobacteri
159	7	3.1	249	2	Q9AFF2	Q9aff2 uncultured	232	7	3.1	286	2	Q9CCW1	Q9ccw1 mycobacteri
160	7	3.1	249	2	AAO73908	Aao73908 unculture	233	7	3.1	287	2	Q6GL77	Q6gl77 xenopus tro
161	7	3.1	249	2	AAT09901	Aat09901 unculture	234	7	3.1	291	2	Q7WY8	Q7wy8 pseudomonas
162	7	3.1	250	2	Q674G7	Q6j4g7 uncultured	235	7	3.1	292	1	LICB_HAEIN	Li1482 haemophilus
163	7	3.1	250	2	Q83TG9	Q83tg9 uncultured	236	7	3.1	293	2	Q9L396	Q9l396 sphingomona
164	7	3.1	250	2	Q83TU0	Q83tu0 uncultured	237	7	3.1	297	1	U33K_HUMAN	U04323 homo sapien
165	7	3.1	250	2	Q83UH6	Q83uh6 uncultured	238	7	3.1	305	1	Y348_MYCPN	Y75255 mycoplasma
166	7	3.1	250	2	Q84BD7	Q84bd7 uncultured	239	7	3.1	312	2	Q8BV93	Q8bv93 homo sapien
167	7	3.1	250	2	Q84BD8	Q84bd8 uncultured	240	7	3.1	313	2	Q8DS49	Q8ds49 streptococc
168	7	3.1	250	2	Q84BD9	Q84bd9 uncultured	241	7	3.1	313	2	Q93HA6	Q93ha6 streptomyce
169	7	3.1	250	2	Q84BE0	Q84be0 uncultured	242	7	3.1	315	1	HEM3_PROMA	H7vd89 prochloroco
170	7	3.1	250	2	Q84BE1	Q84be1 uncultured	243	7	3.1	318	2	Q8KN69	Q8kn69 pseudomonas
171	7	3.1	250	2	Q84BE2	Q84be2 uncultured	244	7	3.1	318	2	Q8KN93	Q8kn93 pseudomonas
172	7	3.1	250	2	Q84BE3	Q84be3 uncultured	245	7	3.1	319	1	YE21_LISIN	Y92bx1 listeria in
173	7	3.1	250	2	Q84BE4	Q84be4 uncultured	246	7	3.1	325	2	Q982B7	Q982b7 rhizobium l
174	7	3.1	250	2	Q84BE5	Q84be5 uncultured	247	7	3.1	334	2	Q72HV3	Q72hv3 thermus the
175	7	3.1	250	2	Q84BE6	Q84be6 uncultured	248	7	3.1	334	2	AA581721	Aa581721 thermus t
176	7	3.1	250	2	Q84BE7	Q84be7 uncultured	249	7	3.1	335	2	Q8CG5	Q8cgg5 mus musculu
177	7	3.1	250	2	Q84BE8	Q84be8 uncultured	250	7	3.1	335	2	AAH58570	Aah58570 mus muscu

251	7	3.1	339	2	Q87DU2	Q87du2 xylella fas	324	7	3.1	494	1	MURE_ECOLI	P22188 escherichia
252	7	3.1	340	2	Q8OXU5	Q80xu5 mus musculu	325	7	3.1	494	2	Q82M13	Q82m13 streptomyce
253	7	3.1	347	2	Q25436	Q25436 mayetiola d	326	7	3.1	495	1	MURE_SHIFL	Q83mg0 shigella fl
254	7	3.1	349	2	Q72HL7	Q72hl7 thermus the	327	7	3.1	496	2	Q23767	Q23767 culex tarsa
255	7	3.1	349	2	AAS81812	Aas81812 thermus t	328	7	3.1	497	2	Q6MW17	Q6mw17 neurospora
256	7	3.1	359	2	Q8TXS2	Q8txs2 mehanopyru	329	7	3.1	497	2	CAE76134	CAe76134 neurospor
257	7	3.1	361	1	Y136_METJA	Q87600 methanococ	330	7	3.1	502	2	Q74002	Q74002 pyrococcus
258	7	3.1	363	2	Q8CCB5	Q8ccb5 mus musculu	331	7	3.1	503	2	Q7WC94	Q7wc94 bordetella
259	7	3.1	364	1	WNT6_MOUSE	P22727 mus musculu	332	7	3.1	503	2	Q8AYE4	Q8aye4 brachydanio
260	7	3.1	364	2	Q8OZM9	Q80zm9 mus musculu	333	7	3.1	504	2	Q92BW5	Q92bw5 streptomyce
261	7	3.1	365	1	WNT6_HUMAN	Q9y6f9 homo sapien	334	7	3.1	504	2	Q7P213	Q7p213 chromobacte
262	7	3.1	365	2	AP36124	Aap36124 homo sapi	335	7	3.1	506	2	Q7P213	Q7p213 chromobacte
263	7	3.1	368	1	UCR2_TZAST	P07257 saccharomyc	336	7	3.1	509	2	Q7WQ98	Q7wq98 bordetella
264	7	3.1	368	2	AAS56394	Aas56394 saccharom	337	7	3.1	509	2	Q9AK17	Q9ak17 streptomyce
265	7	3.1	375	1	OTC_TRAHI	P78603 trameses hi	338	7	3.1	523	2	Q9KYG3	Q9kyg3 streptomyce
266	7	3.1	375	2	Q8DYP2	Q8dyp2 streptococ	339	7	3.1	527	2	Q7XDX5	Q7xdx5 oryza sativ
267	7	3.1	375	2	Q8B499	Q8e499 streptococ	340	7	3.1	529	2	Q8N2D6	Q8n2d6 homo sapien
268	7	3.1	376	2	Q8GBA1	Q8gba1 heliobacill	341	7	3.1	529	2	Q726G5	Q726g5 desulfovibr
269	7	3.1	377	2	Q6XZY1	Q6xzy1 pasteurella	342	7	3.1	529	2	Q91OE1	Q91oe1 pseudomonas
270	7	3.1	377	2	AP80228	Aap80228 pasteurel	343	7	3.1	529	2	AAS97613	AAe97613 desulfovi
271	7	3.1	378	2	Q7U5K7	Q7u5k7 synechococ	344	7	3.1	530	2	Q838Q4	Q838q4 enterococu
272	7	3.1	382	2	Q6X2X6	Q6x2x6 pasteurella	345	7	3.1	531	2	Q74B43	Q74b43 geobacter s
273	7	3.1	382	2	AP80233	Aap80233 pasteurel	346	7	3.1	531	2	Q5PA74	Q5pa74 xenopus lae
274	7	3.1	384	2	Q61340	Q61340 mus musculu	347	7	3.1	531	2	AAR35575	AAr35575 geobacter
275	7	3.1	387	2	Q99X15	Q99x15 staphylococ	348	7	3.1	531	2	AAH60427	AAh60427 xenopus l
276	7	3.1	387	2	Q7A7Z0	Q7a7z0 staphylococ	349	7	3.1	539	2	Q72KI2	Q72ki2 thermus the
277	7	3.1	388	2	Q966V2	Q966v2 halocynthia	350	7	3.1	539	2	AAS80826	AAe80826 thermus t
278	7	3.1	389	2	Q56074	Q56074 streptomyce	351	7	3.1	565	2	Q7NV85	Q7nv85 chromobacte
279	7	3.1	399	2	Q7WTF9	Q7wtf9 streptomyce	352	7	3.1	577	2	Q7QT28	Q7qt28 giardia lam
280	7	3.1	399	2	Q88GZ9	Q88gz9 pseudomonas	353	7	3.1	582	2	Q7RSE4	Q7rse4 plasmodium
281	7	3.1	404	2	Q916L7	Q916l7 pseudomonas	354	7	3.1	582	2	Q8PIQ4	Q8piq4 streptococ
282	7	3.1	408	2	Q7NX06	Q7nx06 chromobacte	355	7	3.1	584	2	Q8K778	Q8k778 streptococ
283	7	3.1	411	2	Q73P30	Q73p30 treponema d	356	7	3.1	588	2	Q74GI5	Q74gi5 geobacter s
284	7	3.1	411	2	AAS11460	Aas11460 treponema	357	7	3.1	588	2	AAR33595	AAr33595 geobacter
285	7	3.1	412	2	Q8VBX7	Q8vbx7 mus musculu	358	7	3.1	602	2	Q87UA7	Q87ua7 pseudomonas
286	7	3.1	412	2	Q8VEI3	Q8vei3 mus musculu	359	7	3.1	604	2	Q8EMC2	Q8emc2 mycoplasma
287	7	3.1	412	2	Q8VI77	Q8vi77 mus musculu	360	7	3.1	605	2	Q8PB84	Q8pb84 xanthomonas
288	7	3.1	420	2	Q9A5Y2	Q9a5y2 caulobacter	361	7	3.1	612	2	P92916	P92916 allium cepa
289	7	3.1	420	2	Q9X8Q9	Q9x8q9 streptomyce	362	7	3.1	615	2	Q93H48	Q93h48 streptomyce
290	7	3.1	424	2	Q74EL2	Q74el2 geobacter s	363	7	3.1	619	2	Q6BIU3	Q6biu3 debaryomyce
291	7	3.1	424	2	AAR34277	Aar34277 geobacter	364	7	3.1	619	2	Q7TT41	Q7tt41 mus musculu
292	7	3.1	425	2	Q73PS3	Q73ps3 treponema d	365	7	3.1	619	2	Q91XT2	Q91xt2 mus musculu
293	7	3.1	425	2	AAS11216	Aas11216 treponema	366	7	3.1	619	2	Q6L970	Q6l970 anguilla ja
294	7	3.1	426	2	Q7S7G7	Q7s7g7 neurospora	367	7	3.1	621	1	LAC2_PODAN	P78722 podospora a
295	7	3.1	428	2	Q7W6W3	Q7w6w3 bordetella	368	7	3.1	621	2	Q8U9J0	Q8u9j0 agrobacteri
296	7	3.1	428	2	Q7WIZ6	Q7wiz6 bordetella	369	7	3.1	625	2	Q89FI4	Q89fi4 bradyrhizob
297	7	3.1	434	2	Q82D24	Q82d24 yersinia pe	370	7	3.1	628	2	Q6HLD7	Q6hld7 bacillus th
298	7	3.1	437	2	Q9JRV5	Q9jrv5 neisseria m	371	7	3.1	628	2	Q73BB2	Q73bb2 bacillus ce
299	7	3.1	437	2	Q9JUF6	Q9juf6 neisseria m	372	7	3.1	628	2	Q81T53	Q81t53 bacillus an
300	7	3.1	438	1	FUMC_SULSO	P39461 sulfolobus	373	7	3.1	628	2	Q9A4M9	Q9a4m9 caulobacter
301	7	3.1	439	2	Q96Z05	Q96z05 sulfolobus	374	7	3.1	628	2	AAS40467	AAe40467 bacillus
302	7	3.1	447	2	Q9HPQ2	Q9hpq2 halobacteri	375	7	3.1	629	1	AAT30535	AAt30535 bacillus
303	7	3.1	451	2	Q895M4	Q895m4 clostridium	376	7	3.1	639	2	Q07619	Q07639 streptomyce
304	7	3.1	453	2	Q58973	Q58973 pyrococcus	377	7	3.1	642	2	Q7CT69	Q7ct69 agrobacteri
305	7	3.1	460	2	Q8DOU0	Q8dou0 yersinia pe	378	7	3.1	645	2	Q7R868	Q7r868 plasmodium
306	7	3.1	460	2	AAS62600	Aas62600 yersinia	379	7	3.1	653	2	Q6CUH7	Q6cu7 kluyveromyc
307	7	3.1	461	2	Q9RSC9	Q9rsc9 deinococcus	380	7	3.1	659	1	VATI_PYRAB	Q6uxu2 pyrococcus
308	7	3.1	462	2	Q97XM0	Q97xm0 sulfolobus	381	7	3.1	662	2	Q6N8D8	Q6n8d8 rhodospesu
309	7	3.1	463	2	Q8RZN2	Q8rzn2 oryza sativ	382	7	3.1	662	2	CAE27406	CAe27406 rhodopseu
310	7	3.1	464	1	NORM_HAEIN	P45272 haemophilus	383	7	3.1	690	2	Q892U7	Q892u7 clostridium
311	7	3.1	466	2	Q7SH39	Q7sh39 neurospora	384	7	3.1	704	1	DF3E_RHOCA	Q68045 rhodobacter
312	7	3.1	466	2	CAE76521	CAe76521 neurospor	385	7	3.1	707	1	FBW7_HUMAN	Q696h0 homo sapien
313	7	3.1	467	2	Q7SZQ0	Q7szq0 brachydanio	386	7	3.1	723	2	Q8PJV9	Q8pjv9 xanthomonas
314	7	3.1	470	2	Q6NGG0	Q6ngg0 corynebacte	387	7	3.1	729	2	Q8AVI6	Q8avi6 xenopus lae
315	7	3.1	470	2	CAE50087	CAe50087 corynebac	388	7	3.1	744	2	Q7S073	Q7s073 neurospora
316	7	3.1	472	2	Q808Z8	Q808z8 rubella vir	389	7	3.1	766	2	Q9HWZ1	Q9hwz1 pseudomonas
317	7	3.1	477	2	Q8VH25	Q8vhn25 cavia porcè	390	7	3.1	827	2	Q7LYC3	Q7lyc3 listeria mo
318	7	3.1	482	2	Q6V7R1	Q6v7r1 burkholderi	391	7	3.1	832	2	AAT04691	AAt04691 listeria
319	7	3.1	484	2	AAQ54965	AAq54965 burkholder	392	7	3.1	832	2	Q98GU5	Q98gu5 rhizobium l
320	7	3.1	484	2	Q9RZ17	Q9rz17 deinococcus	393	7	3.1	853	2	Q7S3C5	Q7s3c5 neurospora
321	7	3.1	494	1	Q9W6M0	Q9w6m0 oreochromis	394	7	3.1	875	2	Q6BS08	Q6bs08 debaryomyce
322	7	3.1	494	1	MURE_ECOLI6	Q8x922 escherichia	395	7	3.1	890	2	Q53582	Q53582 streptomyce
323	7	3.1	494	1	MURE_ECOLI6	Q8f167 escherichia	396	7	3.1	893	2	Q7RLT3	Q7rlt3 plasmodium

397	7	3.1	923	2	Q6YU66	Q6YU66 oryza sativ
398	7	3.1	923	2	BAD17710	BAD17710 oryza sat
399	7	3.1	992	2	Q9NTH6	Q9NTH6 homo sapien
400	7	3.1	1042	2	Q9LMO1	Q9LMO1 zea mays (m
401	7	3.1	1052	2	Q88532	Q88532 mus musculus
402	7	3.1	1054	2	Q6GPM1	Q6GPM1 xenopus lae
403	7	3.1	1057	2	Q96KR1	Q96KR1 homo sapien
404	7	3.1	1070	2	Q84M87	Q84M87 oryza sativ
405	7	3.1	1083	2	Q7Q7E2	Q7Q7E2 anopheles g
406	7	3.1	1103	2	Q92MY6	Q92MY6 rhizobium m
407	7	3.1	1111	2	Q87XD3	Q87XD3 pseudomonas
408	7	3.1	1196	2	Q6FTP3	Q6FTP3 candida gla
409	7	3.1	1225	2	Q6GP61	Q6GP61 xenopus lae
410	7	3.1	1239	2	Q9FBZ4	Q9FBZ4 streptomyc
411	7	3.1	1345	2	Q6BIF0	Q6BIF0 debaromyce
412	7	3.1	1382	2	Q6BIF0	Q6BIF0 schistosoma
413	7	3.1	1434	2	Q7X5J4	Q7X5J4 oryza sativ
414	7	3.1	1456	2	Q9UPV0	Q9UPV0 homo sapien
415	7	3.1	1460	2	Q8LMT8	Q8LMT8 oryza sativ
416	7	3.1	1516	2	NC02_XENLA	Q9W705 xenopus lae
417	7	3.1	1517	2	Q7UWF1	Q7UWF1 rhodospirell
418	7	3.1	1587	2	LMG3_HUMAN	Q9Y6N6 homo sapien
419	7	3.1	1646	2	Q88D40	Q88D40 pseudomonas
420	7	3.1	1694	2	Q6MZL5	Q6MZL5 homo sapien
421	7	3.1	1694	2	CAE46015	CAE46015 homo sapi
422	7	3.1	1881	2	Q9L7Q2	Q9L7Q2 streptococc
423	7	3.1	1876	2	Q8D4R5	Q8D4R5 vibrio vuln
424	7	3.1	1979	2	TRIA_HUMAN	Q15643 homo sapien
425	7	3.1	2160	2	Q13328	Q13328 magnaporthe
426	7	3.1	2160	2	Q13488	Q13488 magnaporthe
427	7	3.1	2310	2	Q7PQ11	Q7PQ11 anopheles g
428	7	3.1	3054	2	Q7RXY5	Q7RXY5 neurospora
429	7	3.1	3298	2	Q9VB11	Q9VB11 drosophila
430	7	3.1	3853	2	Q8LJW2	Q8LJW2 plasmodium
431	7	3.1	3953	2	Q6H253	Q6H253 burkholderi
432	7	3.1	4067	2	Q6Z2J4	Q6Z2J4 actinoplan
433	7	3.1	4067	2	Q70AZ7	Q70AZ7 actinoplan
434	7	3.1	4067	2	CAE53352	CAE53352 actinopla
435	7	3.1	4077	2	Q939Z0	Q939Z0 amycolatops
436	7	3.1	6084	2	Q87ID8	Q87ID8 vibrio para
437	7	3.1	7158	2	Q23551	Q23551 caenothabdi
438	7	3.1	7158	2	Q23551	Q23551 caenothabdi
439	6	2.7	15	2	Q7IA41	Q7IA41 homo sapien
440	6	2.7	15	2	AAQ11189	AAQ11189 homo sapi
441	6	2.7	19	2	Q47049	Q47049 enterobacte
442	6	2.7	20	1	CPEX_CAVPO	P34033 cavia porce
443	6	2.7	21	2	Q9TWJ2	Q9TWJ2 symbiodiniu
444	6	2.7	31	2	Q9QVA5	Q9QVA5 cavia (guin
445	6	2.7	33	2	Q9QVJ4	Q9QVJ4 cavia (guin
446	6	2.7	35	2	Q80XC1	Q80XC1 mus musculu
447	6	2.7	37	1	RL36_VIBCH	P78001 vibrio chol
448	6	2.7	38	1	RL36_BUCBP	Q89A86 buchnera ap
449	6	2.7	40	2	Q9VZP8	Q9VZP8 hepatitis c
450	6	2.7	41	2	Q9QUY1	Q9QUY1 cavia (guin
451	6	2.7	42	2	Q8JPF3	Q8JPF3 hepatitis c
452	6	2.7	43	2	Q6D110	Q6D110 erwinia car
453	6	2.7	45	2	Q92A35	Q92A35 listeria in
454	6	2.7	45	2	Q8Y5S5	Q8Y5S5 listeria mo
455	6	2.7	47	2	Q84IQ9	Q84IQ9 frankia sp.
456	6	2.7	47	2	Q9WT97	Q9WT97 hepatitis c
457	6	2.7	49	2	Q7RPV1	Q7RPV1 plasmodium
458	6	2.7	50	2	Q9PSQ4	Q9PSQ4 gallus gall
459	6	2.7	54	2	Q879Q2	Q879Q2 streptococc
460	6	2.7	54	2	Q9A1S7	Q9A1S7 streptococc
461	6	2.7	54	2	Q8VSG4	Q8VSG4 shigella fl
462	6	2.7	56	2	Q8LKH8	Q8LKH8 lolium pere
463	6	2.7	57	2	Q7YWL5	Q7YWL5 lumbricus t
464	6	2.7	58	2	Q7UA64	Q7UA64 synechococc
465	6	2.7	58	2	Q9DIM4	Q9DIM4 hepatitis c
466	6	2.7	58	2	Q9DIM5	Q9DIM5 hepatitis c
467	6	2.7	58	2	Q9DIM6	Q9DIM6 hepatitis c
468	6	2.7	58	2	Q9DIQ0	Q9DIQ0 hepatitis c
469	6	2.7	58	2	Q9DIQ1	Q9DIQ1 hepatitis c

470	6	2.7	58	2	Q9DIQ2	Q9DIQ2 hepatitis c
471	6	2.7	58	2	Q9DIQ9	Q9DIQ9 hepatitis c
472	6	2.7	58	2	Q9DIR1	Q9DIR1 hepatitis c
473	6	2.7	59	2	Q97F86	Q97F86 streptococc
474	6	2.7	61	1	Y108_RICCN	Q92JF9 rickettsia
475	6	2.7	62	2	Q9ADX3	Q9ADK3 escherichia
476	6	2.7	62	2	Q9AB12	Q9AB12 caulobacter
477	6	2.7	63	2	Q88UK3	Q88UK3 lactobacill
478	6	2.7	64	2	Q8JPF5	Q8JPF5 hepatitis c
479	6	2.7	64	2	Q8JPF6	Q8JPF6 hepatitis c
480	6	2.7	64	2	Q8JPF7	Q8JPF7 hepatitis c
481	6	2.7	64	2	Q8JPF9	Q8JPF9 hepatitis c
482	6	2.7	67	2	Q73XU4	Q73XU4 mycobacteri
483	6	2.7	67	2	Q7VL71	Q7VL71 haemophilus
484	6	2.7	67	2	AA04531	AA04531 mycobacte
485	6	2.7	68	2	Q7SSK9	Q7SSK9 neurospora
486	6	2.7	68	2	Q05625	Q05625 staphylococ
487	6	2.7	68	2	Q05625	Q05625 staphylococ
488	6	2.7	68	2	Q8JPF8	Q8JPF8 hepatitis c
489	6	2.7	68	2	Q8JPG0	Q8JPG0 hepatitis c
490	6	2.7	71	1	TRAD_AGR5	Q44347 agrobacteri
491	6	2.7	71	1	TRAD_AGR5	Q44347 agrobacteri
492	6	2.7	71	1	Q8TET5	Q8TET5 homo sapien
493	6	2.7	71	1	Q8TET5	Q8TET5 homo sapien
494	6	2.7	72	2	Q20922	Q20922 metallura t
495	6	2.7	72	2	Q20915	Q20915 metallura b
496	6	2.7	72	2	Q20925	Q20925 metallura t
497	6	2.7	72	2	Q20927	Q20927 eriocnemi
498	6	2.7	72	2	Q6P3A5	Q6P3A5 mus musculu
499	6	2.7	72	2	AAH64104	AAH64104 mus muscu
500	6	2.7	73	2	Q20913	Q20913 metallura w
501	6	2.7	73	2	Q20914	Q20914 metallura w
502	6	2.7	73	2	Q20916	Q20916 metallura p
503	6	2.7	73	2	Q20917	Q20917 metallura o
504	6	2.7	73	2	Q20918	Q20918 metallura t
505	6	2.7	73	2	Q20919	Q20919 metallura e
506	6	2.7	73	2	Q20920	Q20920 metallura a
507	6	2.7	73	2	Q20923	Q20923 metallura t
508	6	2.7	73	2	Q20924	Q20924 chalcostigm
509	6	2.7	73	2	Q21805	Q21805 metallura t
510	6	2.7	73	2	Q88R77	Q88R77 pseudomonas
511	6	2.7	73	2	Q92L43	Q92L43 helicobacte
512	6	2.7	74	2	Q25482	Q25482 helicobacte
513	6	2.7	74	2	Q9DW87	Q9DW87 rat cytomeg
514	6	2.7	75	2	Q7V603	Q7V603 prochloroco
515	6	2.7	77	2	Q47772	Q47772 enterococcu
516	6	2.7	78	2	Q85FN9	Q85FN9 adiantum ca
517	6	2.7	78	2	Q89DK7	Q89DK7 bradyrhizob
518	6	2.7	79	2	Q6LZP9	Q6LZP9 methanococc
519	6	2.7	79	2	Q7XV02	Q7XV02 oryza sativ
520	6	2.7	79	2	CAF30131	CAF30131 methanoco
521	6	2.7	80	1	OAG1_SALTI	OAG1_SALTI
522	6	2.7	80	2	Q77WZ5	Q77WZ5 hepatitis c
523	6	2.7	80	2	Q77WZ6	Q77WZ6 hepatitis c
524	6	2.7	80	2	Q9WA16	Q9WA16 hepatitis c
525	6	2.7	82	2	Q29354	Q29354 sus scrofa
526	6	2.7	82	2	Q8XU57	Q8XU57 ralstonia s
527	6	2.7	82	2	Q4514	Q4514 paramescium
528	6	2.7	83	2	Q6C213	Q6C213 yarrowia li
529	6	2.7	84	1	OAG1_SALTY	OAG1_SALTY
530	6	2.7	85	2	Q2U2K1	Q2U2K1 h prognado
531	6	2.7	85	2	Q7V6X6	Q7V6X6 pyrococcus
532	6	2.7	85	2	Q76FQ2	Q76FQ2 pyrococcus
533	6	2.7	85	2	AA0271717	AA0271717 haplochro
534	6	2.7	85	2	BAC65155	BAC65155 oreochrom
535	6	2.7	85	2	BAC56850	BAC56850 oreochrom
536	6	2.7	86	2	Q7XIZ2	Q7XIZ2 oryza sativ
537	6	2.7	86	2	Q8ZFO0	Q8ZFO0 yersinia pe
538	6	2.7	86	2	BAC82912	BAC82912 oryza eat
539	6	2.7	86	2	AA062000	AA062000 yersinia
540	6	2.7	88	2	Q77WZ7	Q77WZ7 hepatitis c
541	6	2.7	88	2	Q77WZ8	Q77WZ8 hepatitis c
542	6	2.7	88	2	Q9W887	Q9W887 hepatitis c

543	6	2.7	89	2	Q6VTG3	Q6vtg3 oryza sativ	616	6	2.7	103	2	BAC98573	BAC98573 oryza sat
544	6	2.7	89	2	BAD17766	Bad17766 oryza sat	617	6	2.7	103	2	BAC99714	BAC99714 oryza sat
545	6	2.7	89	2	BAD17774	Bad17774 oryza sat	618	6	2.7	104	1	HSP2_RAT	P11248 rattus norv
546	6	2.7	90	2	Q77677	Q77677 sus scrofa	619	6	2.7	104	2	Q722E0	Q72260 hepatitis c
547	6	2.7	90	2	Q7UTX5	Q7utx5 rhodopirell	620	6	2.7	104	2	Q84192	Q84192 newcastle d
548	6	2.7	90	2	Q98UD9	Q98jd9 rhizobium l	621	6	2.7	104	2	Q9WJ27	Q9wj27 newcastle d
549	6	2.7	91	2	Q76LQ2	Q76lq2 haemaphysal	622	6	2.7	105	1	HSP2_RATFU	Q9pfe9 rattus fusc
550	6	2.7	91	2	Q82965	Q82965 ralestonia s	623	6	2.7	105	2	Q9PFEB	Q9pfe9 xylella fas
551	6	2.7	91	2	Q8XPW3	Q8xpw3 ralestonia s	624	6	2.7	105	2	Q72261	Q72261 hepatitis c
552	6	2.7	91	2	Q92980	Q92980 hepatitis c	625	6	2.7	106	2	Q6WPI1	Q6wp11 atthis helo
553	6	2.7	91	2	Q77PM5	Q77pm5 hepatitis c	626	6	2.7	106	2	Q82UE9	Q82ue9 nitrosomona
554	6	2.7	91	2	Q77PM6	Q77pm6 hepatitis c	627	6	2.7	106	2	Q72254	Q72254 hepatitis c
555	6	2.7	91	2	Q77PM7	Q77pm7 hepatitis c	628	6	2.7	106	2	Q72255	Q72255 hepatitis c
556	6	2.7	91	2	Q77PM8	Q77pm8 hepatitis c	629	6	2.7	106	2	Q72256	Q72256 hepatitis c
557	6	2.7	91	2	Q77PM5	Q77pm5 hepatitis c	630	6	2.7	106	2	Q72257	Q72257 hepatitis c
558	6	2.7	91	2	Q9W8F6	Q9w8f6 hepatitis c	631	6	2.7	106	2	AAQ92070	AAQ92070 atthis he
559	6	2.7	91	2	Q9W8M5	Q9w8m5 hepatitis c	632	6	2.7	107	2	Q915B2	Q915b2 salmoneila
560	6	2.7	91	2	Q9WN25	Q9wn25 hepatitis c	633	6	2.7	108	2	Q81ZD3	Q81zd3 anabaena sp
561	6	2.7	91	2	Q9WN26	Q9wn26 hepatitis c	634	6	2.7	108	2	Q9QW50	Q9qw50 peromyscus
562	6	2.7	91	2	Q9WN27	Q9wn27 hepatitis c	635	6	2.7	109	2	Q9FTD3	Q9ftd3 oryza sativ
563	6	2.7	91	2	Q9WN29	Q9wn29 hepatitis c	636	6	2.7	110	2	Q8ZSN0	Q8zen0 pyrobaculum
564	6	2.7	91	2	Q9WN38	Q9wn38 hepatitis c	637	6	2.7	110	2	Q6BVT8	Q6bvt8 debaryomyce
565	6	2.7	91	2	BAD03393	Bad0393 haemaphys	638	6	2.7	110	2	Q86YL1	Q86yl1 homo sapien
566	6	2.7	92	2	Q6BJ99	Q6bj99 debaryomyce	639	6	2.7	112	2	Q70ZA7	Q70za7 canis faml
567	6	2.7	92	2	Q9P0G2	Q9p0g2 homo sapien	640	6	2.7	112	2	Q6WPH8	Q6wph8 coeligena t
568	6	2.7	93	2	Q87EE4	Q87ee4 xylella fas	641	6	2.7	112	2	Q6WPH9	Q6wph9 calothorax
569	6	2.7	93	2	Q82U33	Q82u33 rhizobium m	642	6	2.7	112	2	Q6WP10	Q6wp10 selasphorus
570	6	2.7	93	2	Q9WUZ6	Q9wuz6 m thymus an	643	6	2.7	112	2	Q6WP12	Q6wp12 lampornis v
571	6	2.7	93	2	Q9ERE0	Q9ere0 rattus norv	644	6	2.7	112	2	Q6WP13	Q6wp13 glaucidium
572	6	2.7	93	2	Q72259	Q72259 hepatitis c	645	6	2.7	112	2	Q6WP15	Q6wp15 collocalia
573	6	2.7	94	2	Q6HPC8	Q6hpc8 bacillus th	646	6	2.7	112	2	Q6WP16	Q6wp16 streptococ
574	6	2.7	94	2	Q9P568	Q9p568 escherichia	647	6	2.7	112	2	Q6WP17	Q6wp17 geococcyx v
575	6	2.7	94	2	Q73ES0	Q73es0 bacillus ce	648	6	2.7	112	2	Q6WP18	Q6wp18 micrathene
576	6	2.7	94	2	Q81VE2	Q81ve2 bacillus an	649	6	2.7	112	2	Q6WP19	Q6wp19 nyctiphrynu
577	6	2.7	94	2	AA539224	Aa539224 bacillus	650	6	2.7	112	2	Q6WPJ0	Q6wpj0 caprimulgus
578	6	2.7	94	2	AA129349	Aa129349 bacillus	651	6	2.7	112	2	Q6WPJ1	Q6wpj1 trogon meia
579	6	2.7	95	2	Q6YQB4	Q6yqb4 onion yello	652	6	2.7	112	2	Q6WPJ2	Q6wpj2 trogon citr
580	6	2.7	95	2	BAD04546	Bad04546 onion yel	653	6	2.7	112	2	Q6WPJ4	Q6wpj4 sphyrapicus
581	6	2.7	97	2	Q7NXU9	Q7nxu9 chromobacte	654	6	2.7	112	2	Q6WPJ5	Q6wpj5 momotus mex
582	6	2.7	97	2	Q7V728	Q7v728 prochloroco	655	6	2.7	112	2	Q6WPJ6	Q6wpj6 pionus seri
583	6	2.7	97	2	Q8HY51	Q8hy51 pseudomonas	656	6	2.7	112	2	CAD24218	Cad24218 canis fam
584	6	2.7	98	2	Q8FSJ6	Q8fsj6 corynebacte	657	6	2.7	112	2	AAQ92055	AAQ92055 pionus se
585	6	2.7	98	2	Q9DGL8	Q9dgl8 gallus gall	658	6	2.7	112	2	AAQ92056	AAQ92056 momotus m
586	6	2.7	99	2	Q9HWP0	Q9hwp0 pseudomonas	659	6	2.7	112	2	AAQ92057	AAQ92057 sphyrapic
587	6	2.7	99	2	Q70V42	Q70v42 cyprinus ca	660	6	2.7	112	2	AAQ92059	AAQ92059 trogon ci
588	6	2.7	99	2	CAD59917	Cad59917 cyprinus	661	6	2.7	112	2	AAQ92060	AAQ92060 trogon me
589	6	2.7	100	1	URE3_BROM	Q7v3v4 prochloroco	662	6	2.7	112	2	AAQ92061	AAQ92061 caprimulg
590	6	2.7	100	1	URE3_SYNPN	Q8f400 synechococc	663	6	2.7	112	2	AAQ92062	AAQ92062 nyctiphry
591	6	2.7	100	1	URE3_SYNPNX	Q7u315 synechococc	664	6	2.7	112	2	AAQ92063	AAQ92063 micrathen
592	6	2.7	100	2	Q9G8C3	Q9g8c3 sheppardia	665	6	2.7	112	2	AAQ92064	AAQ92064 geococcyx
593	6	2.7	100	2	Q53718	Q53718 streptomyc	666	6	2.7	112	2	AAQ92065	AAQ92065 streptopr
594	6	2.7	100	2	Q8DG82	Q8dg82 synechococc	667	6	2.7	112	2	AAQ92066	AAQ92066 collocali
595	6	2.7	100	2	Q91652	Q91652 pseudomonas	668	6	2.7	112	2	AAQ92068	AAQ92068 glaucidui
596	6	2.7	100	2	Q8K351	Q8k351 mus musculu	669	6	2.7	112	2	AAQ92069	AAQ92069 lampornis
597	6	2.7	101	2	Q6WPI4	Q6wp14 apus apus (	670	6	2.7	112	2	AAQ92071	AAQ92071 selaphor
598	6	2.7	101	2	Q952Q4	Q952q4 euphorbia p	671	6	2.7	112	2	AAQ92072	AAQ92072 calothora
599	6	2.7	101	2	Q8RYV7	Q8ryv7 allium cepa	672	6	2.7	112	2	AAQ92073	AAQ92073 coeligena
600	6	2.7	101	2	Q7PIN8	Q7pin8 chromobacte	673	6	2.7	113	2	Q8MRZ1	Q8mrz1 drosophila
601	6	2.7	101	2	Q77WZ4	Q77wz4 hepatitis c	674	6	2.7	113	2	Q9G176	Q9g176 sheppardia
602	6	2.7	101	2	Q9W947	Q9w947 hepatitis c	675	6	2.7	113	2	Q9G212	Q9g212 sheppardia
603	6	2.7	101	2	AAQ92067	AAQ92067 apus apus	676	6	2.7	113	2	Q9G2F2	Q9g2f2 sheppardia
604	6	2.7	102	2	Q93UM3	Q93um3 synechococc	677	6	2.7	113	2	Q9G8C4	Q9g8c4 sheppardia
605	6	2.7	102	2	Q73NN6	Q73nn6 treponema d	678	6	2.7	113	2	Q9G8C5	Q9g8c5 sheppardia
606	6	2.7	102	2	Q7UWM6	Q7umm6 rhodopirell	679	6	2.7	113	2	Q9G8C6	Q9g8c6 sheppardia
607	6	2.7	102	2	Q9X868	Q9x868 streptomyc	680	6	2.7	113	2	Q9G8C7	Q9g8c7 sheppardia
608	6	2.7	102	2	Q8C2B7	Q8c2b7 mus musculu	681	6	2.7	113	2	Q9G8C8	Q9g8c8 sheppardia
609	6	2.7	102	2	Q9D8U9	Q9d8u9 m mus muscu	682	6	2.7	113	2	Q9G8C9	Q9g8c9 sheppardia
610	6	2.7	102	2	Q72263	Q72263 hepatitis c	683	6	2.7	113	2	Q9G8D0	Q9g8d0 sheppardia
611	6	2.7	102	2	Q92981	Q92981 hepatitis c	684	6	2.7	113	2	Q9G8D1	Q9g8d1 sheppardia
612	6	2.7	102	2	AA511605	Aa511605 treponema	685	6	2.7	113	2	Q9G8D2	Q9g8d2 sheppardia
613	6	2.7	103	2	Q6Z546	Q6z546 oryza sativ	686	6	2.7	113	2	Q9G8D3	Q9g8d3 sheppardia
614	6	2.7	103	2	Q8DF74	Q8df74 vibrio vuln	687	6	2.7	113	2	Q9XC83	Q9xc83 rhodothermu
615	6	2.7	103	2	Q806S9	Q806s9 hepatitis c	688	6	2.7	113	2	Q6D2F4	Q6d2f4 erwinia car

689	6	2.7	113	2	072289	072289 hepatitis c
690	6	2.7	114	2	08TPC5	08tpc5 methanosarc
691	6	2.7	114	2	08L482	08l482 oryza sativ
692	6	2.7	114	2	074CG1	074cgl geobacter s
693	6	2.7	114	2	AKR35090	Akr35090 geobacter
694	6	2.7	115	2	09LFS5	09lfs5 arabidopsis
695	6	2.7	116	2	06K3D0	06k3d0 oryza sativ
696	6	2.7	116	2	BAD22410	Bad22410 oryza sat
697	6	2.7	117	2	09YDG6	09ydg6 aeropyrum p
698	6	2.7	117	2	06SKY6	06sky6 speleonecte
699	6	2.7	117	2	09LHW6	09lhw6 oryza sativ
700	6	2.7	117	2	AA500887	Aa500887 speleonec
701	6	2.7	118	1	R18E_SULTO	096yw1 sulfolobus
702	6	2.7	118	2	P73674	P73674 synechocyst
703	6	2.7	118	2	09KBB6	09kbb6 bacillus ha
704	6	2.7	119	2	08DJ95	08dj95 synechococc
705	6	2.7	120	1	CLPS_PSESM	08rzs0 pseudomonas
706	6	2.7	120	2	09GB86	09gb86 rostratula
707	6	2.7	120	2	09GB87	09gb87 microparra
708	6	2.7	120	2	09GB88	09gb88 microparra
709	6	2.7	120	2	09GB89	09gb89 metopidius
710	6	2.7	120	2	09GB90	09gb90 hydrophasia
711	6	2.7	120	2	09GB91	09gb91 jacara spin
712	6	2.7	120	2	09GB92	09gb92 jacara
713	6	2.7	120	2	09GB93	09gb93 actophilorn
714	6	2.7	120	2	09S557	09s557 pseudomonas
715	6	2.7	120	2	09KW33	09kw33 pseudomonas
716	6	2.7	120	2	08PFF0	08pff0 xanthomonas
717	6	2.7	120	2	08S565	08s565 pseudomonas
718	6	2.7	120	2	07DCU1	07dcj1 pseudomonas
719	6	2.7	120	2	072252	072252 hepatitis c
720	6	2.7	121	2	08ZVY4	08zvy4 pyrobaculum
721	6	2.7	121	2	08N950	08n950 homo sapien
722	6	2.7	121	2	082KC7	082kc7 streptomyce
723	6	2.7	121	2	08RVF6	08rvf6 deinococcus
724	6	2.7	121	2	09D9L9	09d9l9 mus musculu
725	6	2.7	121	2	072248	072248 hepatitis c
726	6	2.7	121	2	072250	072250 hepatitis c
727	6	2.7	121	2	072251	072251 hepatitis c
728	6	2.7	121	2	072253	072253 hepatitis c
729	6	2.7	121	2	072264	072264 hepatitis c
730	6	2.7	121	2	072265	072265 hepatitis c
731	6	2.7	121	2	072266	072266 hepatitis c
732	6	2.7	121	2	072284	072284 hepatitis c
733	6	2.7	121	2	072285	072285 hepatitis c
734	6	2.7	121	2	072290	072290 hepatitis c
735	6	2.7	121	2	072291	072291 hepatitis c
736	6	2.7	121	2	072292	072292 hepatitis c
737	6	2.7	121	2	072293	072293 hepatitis c
738	6	2.7	121	2	072294	072294 hepatitis c
739	6	2.7	121	2	072295	072295 hepatitis c
740	6	2.7	121	2	072296	072296 hepatitis c
741	6	2.7	122	1	THIH_ORYSA	042443 oryza sativ
742	6	2.7	122	2	06K2X5	06k2x5 oryza sativ
743	6	2.7	122	2	07EZV7	07ezv7 oryza sativ
744	6	2.7	122	2	07VW00	07vv00 bordetella
745	6	2.7	122	2	07WBC0	07wbc0 bordetella
746	6	2.7	122	2	07WMT9	07wmt9 bordetella
747	6	2.7	122	2	092EV2	092ev2 listeria in
748	6	2.7	122	2	BAC79928	Bac79928 oryza sat
749	6	2.7	122	2	BAD20012	Bad20012 oryza sat
750	6	2.7	123	2	08GPT7	08gpt7 pseudomonas
751	6	2.7	123	2	06NA83	06na83 rhodopseudo
752	6	2.7	123	2	CAE26745	CAe26745 rhodopseu
753	6	2.7	124	1	WFD2_CANFA	Q28894 canis fami
754	6	2.7	124	2	09PKS3	09pks3 chlamydia m
755	6	2.7	125	2	08U270	08u270 pyrococcus
756	6	2.7	125	2	08IQI8	08iqi8 drosophila
757	6	2.7	125	2	07NGE6	07nge6 glaucobacter
758	6	2.7	125	2	08DUU9	08duu9 streptococc
759	6	2.7	126	2	09VKE3	09vke3 drosophila
760	6	2.7	127	2	096M58	096m58 homo sapien
761	6	2.7	127	2	088H92	088h92 pseudomonas

086fb5	schistosoma	128	2	086FB5	086fb5 schistosoma
072ja7	thermus the	128	2	072JA7	072ja7 thermus the
08g6x6	bifidobacte	128	2	08G6X6	08g6x6 bifidobacte
Aa81216	thermus t	128	2	AAS81216	Aa81216 thermus t
09xf14	zea mays (m	129	2	09XF14	09xf14 zea mays (m
P74748	synechocyst	129	2	P74748	P74748 synechocyst
08ck94	yersinia pe	129	2	08CK94	08ck94 yersinia pe
08c924	mus musculu	129	2	08C924	08c924 mus musculu
Aa60429	yersinia	129	2	AAS60429	Aa60429 yersinia
Q7eyul	oryza sativ	129	2	Q7EYU1	Q7eyul oryza sativ
Q7nsf8	chromobacte	130	2	Q7NSF8	Q7nsf8 chromobacte
Q8be71	mus musculu	130	2	Q8BS71	Q8be71 mus musculu
Bac84193	oryza eat	130	2	BAC84193	Bac84193 oryza eat
P94143	wautersia m	131	2	P94143	P94143 wautersia m
Q8buc5	mus musculu	131	2	Q8BUC5	Q8buc5 mus musculu
Q92043	mus musculu	131	2	Q9R043	Q92043 mus musculu
P27114	oryctolagus	133	1	MOTI_RABIT	P27114 oryctolagus
Q91dp2	sapporo vir	133	2	Q91DP2	Q91dp2 sapporo vir
Q91dr7	sapporo vir	133	2	Q91DR7	Q91dr7 sapporo vir
034035	streptococc	134	2	034035	034035 streptococc
Q72b49	thermus the	134	2	Q72H49	Q72b49 thermus the
Q68191	hepatitis c	134	2	Q68191	Q68191 hepatitis c
Aa81988	thermus t	134	2	AAS81988	Aa81988 thermus t
Q7sg61	neurospora	135	2	Q7SG61	Q7sg61 neurospora
Q9zli7	helicobacte	135	2	Q9ZLI7	Q9zli7 helicobacte
Q68190	hepatitis c	135	2	Q68190	Q68190 hepatitis c
P30059	epifagus vi	136	1	RE11_EPIVI	P30059 epifagus vi
Q83v7	anaplasma p	136	2	Q83V77	Q83v7 anaplasma p
Q8vgi6	uncultured	136	2	Q8VQI6	Q8vgi6 uncultured
P09697	human cytom	137	1	US33_HCMVA	P09697 human cytom
Q9p4y2	neurospora	137	2	Q9P4Y2	Q9p4y2 neurospora
Q6lxf8	methanococc	138	2	Q6LXF8	Q6lxf8 methanococc
Q7p728	fusobacteri	138	2	Q7P728	Q7p728 fusobacteri
Q4lip2	photobacter	138	2	Q4LI22	Q4lip2 photobacter
Cal30949	methanoco	138	2	CAL30949	Cal30949 methanoco
Cag22838	photobact	138	2	CAG22838	Cag22838 photobact
P43981	haemophilus	139	1	RUVX_HAEIN	P43981 haemophilus
Q9U9A2	leishmania	139	2	Q9U9A2	Q9U9A2 leishmania
Q6ygf7	onion yello	139	2	Q6YQF7	Q6ygf7 onion yello
BaD04501	onion yel	139	2	BAD04501	BaD04501 onion yel
Q6K5h2	oryza sativ	140	2	Q6K5H2	Q6K5h2 oryza sativ
Q69479	mycobacteri	140	2	Q69479	Q69479 mycobacteri
Q7uuJ6	rhodopirell	140	2	Q7UUJ6	Q7uuJ6 rhodopirell
BaD22153	oryza sat	140	2	BAD22153	BaD22153 oryza sat
Q34762	bacillus su	141	1	OHRA_BACSU	Q34762 bacillus su
Q7gm43	anopheles g	141	2	Q7QMA3	Q7gm43 anopheles g
Q9f0e7	pseudomonas	141	2	Q9F0E7	Q9f0e7 pseudomonas
Q87j5	gnetum ghem	142	2	Q87J55	Q87j5 gnetum ghem
Q87y13	pseudomonas	142	2	Q87Y13	Q87y13 pseudomonas
Q83rV4	oryza sativ	143	2	Q8RVRA	Q83rV4 oryza sativ
Q8S3L2	populus tre	143	2	Q8S3L2	Q8S3L2 populus tre
Q74f82	geobacter s	143	2	Q74F82	Q74f82 geobacter s
Q8fnk3	corynebacte	143	2	Q8FNK3	Q8fnk3 corynebacte
Aar34057	geobacter	143	2	AAR34057	Aar34057 geobacter
Q8tyk1	methanopyru	144	2	Q8TYK1	Q8tyk1 methanopyru
Q6ldd4	xanthomonas	144	2	Q6LDD4	Q6ldd4 xanthomonas
AaB19435	xanthomon	144	2	AAB19435	AaB19435 xanthomon
Q612w8	picophilus	145	2	Q6L2W8	Q612w8 picophilus
Q6m120	bdellovibri	145	2	Q6ML20	Q6m120 bdellovibri
CAe80037	bdellovibri	145	2	CAE80037	CAe80037 bdellovibri
Q7phd9	anopheles g	146	2	Q7PHD9	Q7phd9 anopheles g
Q9xaa2	streptocomye	146	2	Q9XAA2	Q9xaa2 streptocomye
Q73yg4	mycobacteri	147	2	Q73YGA	Q73yg4 mycobacteri
AaS04309	mycobacte	147	2	AAS04309	AaS04309 mycobacte
P07492	homo sapien	148	1	GRP_HUMAN	P07492 homo sapien
Q97bg5	thermoplasm	148	2	Q97BG5	Q97bg5 thermoplasm
Q8ip66	drosophila	148	2	Q8IP66	Q8ip66 drosophila
Q9gmX1	macaca fasc	148	2	Q9GMX1	Q9gmX1 macaca fasc

835	6	2.7	148	2	O8JPG4	O8jpg4	hepatitis c	908	6	2.7	160	1	ECP_GORGO	P47778	gorilla gor
836	6	2.7	148	2	AAP35449	Aap35449	homo sapi	909	6	2.7	160	1	ECP_HUMAN	P12724	homo sapien
837	6	2.7	149	2	O6VT90	O6vt90	symbiont ba	910	6	2.7	160	1	ECP_MACFA	P47779	macaca fasc
838	6	2.7	149	2	O8PQ33	O8pq33	xanthomonas	911	6	2.7	160	1	ECP_PANTR	P47780	pan troglolo
839	6	2.7	149	2	AAs47552	Aas47552	symbiont	912	6	2.7	160	1	KCSA_STRCO	O54397	streptomyce
840	6	2.7	150	2	O841K1	O841k1	streptomyce	913	6	2.7	160	1	PETD_SYNP2	P28057	synecococc
841	6	2.7	150	2	O83418	O83418	treponema p	914	6	2.7	160	1	RNKD_MACFA	P47783	macaca fasc
842	6	2.7	150	2	O7U3V5	O7u3v5	synecococc	915	6	2.7	160	2	Q9GJQ9	Q9gjq9	pan troglolo
843	6	2.7	150	2	O9CWB2	O9cwb2	mus musculus	916	6	2.7	160	2	O8SPY5	O8spy5	macaca neme
844	6	2.7	151	1	Y273_METTH	O26373	methanobact	917	6	2.7	160	2	O8SPY6	O8spy6	cercopithe
845	6	2.7	151	1	YBBK_BACSU	O45584	bacillus su	918	6	2.7	160	2	O8SPY7	O8spy7	papio hamad
846	6	2.7	151	1	O05409	O05409	oncopeltus	919	6	2.7	160	2	O8SPY9	O8spy9	macaca neme
847	6	2.7	151	2	O61953	O61953	podisus mac	920	6	2.7	160	2	O8ZS96	O8zsg6	arabidopsis
848	6	2.7	151	2	O6PV96	O6pv96	dunaliella	921	6	2.7	160	2	Q9C807	Q9c807	arabidopsis
849	6	2.7	151	2	O9PN08	O9pn08	campylobact	922	6	2.7	160	2	O8ZGC7	O8zgc7	streptomyce
850	6	2.7	151	2	AAT07669	Aat07669	dunaliell	923	6	2.7	160	2	O83MX2	O83mx2	tropheryma
851	6	2.7	152	2	O8C2P0	O8c2p0	mus musculus	924	6	2.7	160	2	O83NK4	O83nk4	trocheryma
852	6	2.7	153	2	O7O2I1	O7qz11	giardia lam	925	6	2.7	160	2	O8A2T9	O8a2t9	bacteroides
853	6	2.7	153	2	O9ANA9	O9ana9	bradyrhizob	926	6	2.7	160	2	O8FF43	O8ff43	escherichia
854	6	2.7	154	2	O9FKD8	O9fkD8	arabidopsis	927	6	2.7	160	2	O9L0Q9	O9l0q9	streptomyce
855	6	2.7	154	2	O6SK50	O6sk50	arthrobacte	928	6	2.7	161	2	O9HJ86	O9hj86	thermoplasm
856	6	2.7	154	2	O8C927	O8c927	mus musculus	929	6	2.7	161	2	O9P5Q8	O9psq8	neurospora
857	6	2.7	155	1	AAS20122	Aas20122	arthrobac	930	6	2.7	161	2	O7QYEL	O7qyel	giardia lam
858	6	2.7	155	1	CYNS_PSESM	O885a6	pseudomonas	931	6	2.7	161	2	O61GPA	O6igp4	drosofila
859	6	2.7	155	1	MOAC_AERPE	O9yc44	aeropyrum p	932	6	2.7	161	2	O8SPY8	O8spy8	hylobates l
860	6	2.7	155	2	O7UME4	O7ume4	rhodopirell	933	6	2.7	161	2	O852T6	O852t6	brassica ju
861	6	2.7	155	2	O8CR73	O8cr73	staphylococ	934	6	2.7	161	2	O74A29	O74a29	geobacter s
862	6	2.7	155	2	O8PLL6	O8pll6	xanthomonas	935	6	2.7	161	2	O87DX0	O87dx0	xylella fas
863	6	2.7	156	1	CYNS_ECO57	P58704	escherichia	936	6	2.7	161	2	O82ML3	O82ml3	helicobacte
864	6	2.7	156	1	CYNS_ECOLI	P00816	escherichia	937	6	2.7	161	2	O9PDR8	O9pdr8	xylella fas
865	6	2.7	156	1	CYNS_PSEAE	O7na33	photorhabdu	938	6	2.7	161	2	O6F6U5	O6f6u5	acinetobact
866	6	2.7	156	1	CYNS_HOLL	O91263	pseudomonas	939	6	2.7	161	2	AAR35935	Aar35935	geobacter
867	6	2.7	156	2	O6QTE8	O6qte8	ornithodoro	940	6	2.7	162	1	CUC4_HUMAN	O96hw9	homo sapien
868	6	2.7	156	2	O70T64	O70t64	ciona intes	941	6	2.7	162	2	O30249	O30249	archaeoglob
869	6	2.7	156	2	O958Z3	O958z3	galaxias de	942	6	2.7	162	2	O96G83	O96g83	homo sapien
870	6	2.7	156	2	O9LFA5	O9lfa5	arabidopsis	943	6	2.7	162	2	O7NPE9	O7npe9	gloeobacter
871	6	2.7	156	2	O6YQ19	O6yq19	onion yello	944	6	2.7	162	2	O9RVB6	O9rvb6	deinococcus
872	6	2.7	156	2	O6YQR1	O6yqr1	onion yello	945	6	2.7	162	2	O884Q7	O884q7	pseudomonas
873	6	2.7	156	2	O725Q4	O725q4	desulfovibr	946	6	2.7	163	2	O6JIK8	O6jlk8	bacterioph
874	6	2.7	156	2	O8BRJ3	O8brj3	pseudomonas	947	6	2.7	163	2	AAR23175	Aar23175	bacteriop
875	6	2.7	156	2	O8CRK7	O8crk7	staphylococ	948	6	2.7	164	2	O74MU0	O74mu0	nanoarchaeu
876	6	2.7	156	2	CAD68145	Cad68145	clona inc	949	6	2.7	164	2	O8UHN5	O8uhn5	agrobacteri
877	6	2.7	156	2	AAS13689	Aas13689	ornithodo	950	6	2.7	164	2	O8K2Y3	O8k2y3	mus musculu
878	6	2.7	156	2	BAD04397	Bad04397	onion yel	951	6	2.7	164	2	O9JBA3	O9jba3	spodoptera
879	6	2.7	156	2	BAD04641	Bad04641	onion yel	952	6	2.7	164	2	AAR39129	Aar39129	nanoarcha
880	6	2.7	156	2	AAS97839	Aas97839	desulfovi	953	6	2.7	165	1	ADP1_CAEEL	O07750	caenorhabdi
881	6	2.7	157	1	Y905_METTH	O26590	methanobact	954	6	2.7	165	2	O928G8	O928g8	chlamydia p
882	6	2.7	157	2	O8TAV9	O8tav9	homo sapien	955	6	2.7	165	2	O9HXH6	O9hxb6	pseudomonas
883	6	2.7	157	2	O6XJ92	O6xj92	euryopsis fu	956	6	2.7	165	2	O9USF4	O9ufsf4	chlamydia p
884	6	2.7	157	2	O6YQM1	O6yqm1	onion yello	957	6	2.7	165	2	O98J36	O98j36	rhizobium l
885	6	2.7	157	2	O6FZ57	O6fz57	bartonella	958	6	2.7	167	2	O6S5K3	O6ssk3	mycobacteri
886	6	2.7	157	2	O6G2M7	O6g2m7	bartonella	959	6	2.7	167	2	O72K89	O72k89	thermus the
887	6	2.7	157	2	AAP68495	Aap68495	euryopsis	960	6	2.7	167	2	AAR28661	Aar28661	mycobacte
888	6	2.7	157	2	BAD04437	Bad04437	onion yel	961	6	2.7	167	2	AAS80906	Aas80906	thermus t
889	6	2.7	158	1	YM39_MYCTU	O10521	mycobacteri	962	6	2.7	168	1	SP22_ORISA	O91gb4	oryza sativ
890	6	2.7	158	1	YI49_BACAN	O81mx1	bacillus an	963	6	2.7	168	2	O9WXA8	O9wx8	acidiphiliu
891	6	2.7	158	2	O6HG28	O6hg28	bacillus th	964	6	2.7	168	2	O9EXD4	O9rxd4	deinococcus
892	6	2.7	158	2	O25437	O25437	helicobacte	965	6	2.7	168	2	O9KLE7	O9kle7	vibrio chol
893	6	2.7	158	2	O89PV4	O89pv4	bradyrhizob	966	6	2.7	169	2	O8SPV1	O8syp1	drosofila
894	6	2.7	158	2	O9ZLA6	O9zla6	helicobacte	967	6	2.7	169	2	O9GM38	O9gm38	macaca fasc
895	6	2.7	158	2	AAT32557	Aat32557	bacillus	968	6	2.7	169	2	O9LFV7	O9lfv7	arabidopsis
896	6	2.7	159	1	ILVH_ARCFU	O28555	archaeoglob	969	6	2.7	169	2	O8DL63	O8dul3	streptococc
897	6	2.7	159	2	O8FDJ5	O8fdj5	escherichia	970	6	2.7	170	2	O846S9	O846s9	myxococcus
898	6	2.7	159	2	O9AAV2	O9aav2	caulobacter	971	6	2.7	170	2	O7VMY5	O7vmy5	bordetella
899	6	2.7	159	2	O6QIT2	O6qit2	sapovirus h	972	6	2.7	170	2	O7W9M2	O7wm2	bordetella
900	6	2.7	159	2	O6QIT3	O6qit3	sapovirus h	973	6	2.7	170	2	O7WH35	O7wh35	bordetella
901	6	2.7	159	2	O6QIT4	O6qit4	sapovirus h	974	6	2.7	171	2	O7QPH2	O7qph2	anopheles g
902	6	2.7	159	2	O6QIT5	O6qit5	sapovirus h	975	6	2.7	171	2	O8MPD3	O8mpd3	taenia soli
903	6	2.7	159	2	O7S211	O7sz11	monopterus	976	6	2.7	171	2	O8L2A1	O8l2a1	proteus vul
904	6	2.7	159	2	AAS48140	Aas48140	sapovirus	977	6	2.7	172	2	O73VR9	O73vr9	mycobacteri
905	6	2.7	159	2	AAS48141	Aas48141	sapovirus	978	6	2.7	172	2	O92RL1	O92rl1	rhizobium m
906	6	2.7	159	2	AAS48142	Aas48142	sapovirus	979	6	2.7	172	2	AAS05259	Aas05259	mycobacte
907	6	2.7	159	2	AAS48143	Aas48143	sapovirus	980	6	2.7	173	1	CS10_HUMAN	O969h8	homo sapien

981 1 MFT ARATH 1 173 2.7 6 Q9xfk7 arabidopsis 1054  
982 2 Q9YE66 2 173 2.7 6 Q9ve66 aeropyrum p 1055  
983 2 Q615N9 2 173 2.7 6 Q615n9 populus nig 1056  
984 2 Q75QW9 2 173 2.7 6 Q75qW9 populus nig 1057  
985 2 Q841P7 2 173 2.7 6 Q841p7 anaplasma p 1058  
986 2 Q841Q1 2 173 2.7 6 Q841q1 anaplasma p 1059  
987 2 BAD08339 2 173 2.7 6 BAD08339 populus n 1060  
988 2 Q62W12 2 174 2.7 6 Q62w12 homo sapien 1061  
989 2 Q9ASJ1 2 174 2.7 6 Q9asJ1 oryza sativ 1062  
990 2 Q8GHF9 2 174 2.7 6 Q8ghF9 ehrlichia c 1063  
991 2 Q6D0D7 2 174 2.7 6 Q6d0D7 erwinia car 1064  
992 2 Q69999 2 174 2.7 6 Q69999 streptomyce 1065  
993 2 BAC85695 2 174 2.7 6 BAC85695 homo sapi 1066  
994 2 NU6M HIPAM 2 175 2.7 6 NU6M HIPAM hippopotamu 1067  
995 2 Q6BS90 2 175 2.7 6 Q6bs90 debaromyce 1068  
996 2 Q84PU4 2 175 2.7 6 Q84pu4 oryza sativ 1069  
997 2 Q7N154 2 176 2.7 6 Q7n154 photorhabdu 1070  
998 2 YR49\_YERPE 2 176 2.7 6 YR49\_YERPE yersinia pe 1071  
999 2 Q54195 2 176 2.7 6 Q54195 streptomyce 1072  
1000 2 Q63613 2 176 2.7 6 Q63613 rattus norv 1073  
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1002 2 Q877D7 2 177 2.7 6 Q877d7 pyrobaculum 1075  
1003 2 Q87378 2 177 2.7 6 Q87378 lumbricus t 1076  
1004 2 Q7V873 2 177 2.7 6 Q7v873 prochloroco 1077  
1005 2 COX2 RICPR 2 178 2.7 6 COX2 RICPR rickettsia 1078  
1006 2 Q84XL1 2 178 2.7 6 Q84xl1 lycopersico 1079  
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1008 2 Q81AA9 2 179 2.7 6 Q81aa9 bacillus ce 1081  
1009 2 Q8XMQ4 2 179 2.7 6 Q8xmQ4 clostridium 1082  
1010 2 Q6FYC8 2 179 2.7 6 Q6fyc8 bartonella 1083  
1011 2 SP24 RAT 2 180 2.7 6 SP24 RAT rattus norv 1084  
1012 2 Q59788 2 180 2.7 6 Q59788 schizosacch 1085  
1013 2 Q9HZ84 2 180 2.7 6 Q9hz84 pseudomonas 1086  
1014 2 NIP7\_YEAST 2 181 2.7 6 NIP7\_YEAST saccharomyc 1087  
1015 2 Q755C7 2 181 2.7 6 Q755c7 ashbya goss 1088  
1016 2 Q6FJU7 2 181 2.7 6 Q6fjJ7 candida gla 1089  
1017 2 Q6CQW7 2 181 2.7 6 Q6cwQ7 kluyveromyc 1090  
1018 2 Q9HCR8 2 181 2.7 6 Q9hcr8 homo sapien 1091  
1019 2 Q62956 2 181 2.7 6 Q62956 oryza sativ 1092  
1020 2 Q7MQR5 2 181 2.7 6 Q7mqr5 wolinnella s 1093  
1021 2 Q83DU4 2 181 2.7 6 Q83du4 coxiella bu 1094  
1022 2 BAD09963 2 181 2.7 6 BAD09963 oryza sat 1095  
1023 2 AAS56385 2 181 2.7 6 AAS56385 saccharom 1096  
1024 2 AAS53270 2 181 2.7 6 AAS53270 ashbya go 1097  
1025 2 Q74BL2 2 182 2.7 6 Q74bl2 geobacter s 1098  
1026 2 Q90Y81 2 182 2.7 6 Q90y81 lampetra ja 1099  
1027 2 AAR35405 2 182 2.7 6 AAR35405 geobacter 1100  
1028 2 REGA\_RHOSU 2 183 2.7 6 REGA\_RHOSU rhodovulum 1101  
1029 2 Q9G8B7 2 183 2.7 6 Q9g8B7 loxodonta a 1102  
1030 2 Q9G8B8 2 183 2.7 6 Q9g8B8 elephas max 1103  
1031 2 Q9G8B9 2 183 2.7 6 Q9g8B9 elephas max 1104  
1032 2 Q9G8C0 2 183 2.7 6 Q9g8C0 elephas max 1105  
1033 2 Q9G8C1 2 183 2.7 6 Q9g8C1 elephas max 1106  
1034 2 Q9G8C2 2 183 2.7 6 Q9g8C2 elephas max 1107  
1035 2 Q84S18 2 183 2.7 6 Q84s18 raphanus sa 1108  
1036 2 Q70LP4 2 183 2.7 6 Q70lp4 pasteurella 1109  
1037 2 Q9CP51 2 183 2.7 6 Q9cp51 pasteurella 1110  
1038 2 CAD92742 2 183 2.7 6 CAD92742 pasteurel 1111  
1039 2 YEHD\_SCHPO 2 184 2.7 6 YEHD\_SCHPO schizosacch 1112  
1040 2 Q33984 2 184 2.7 6 Q33984 saccharopol 1113  
1041 2 Q6HXZ0 2 184 2.7 6 Q6hxZ0 bacillus an 1114  
1042 2 Q753L3 2 185 2.7 6 Q753L3 ashbya goss 1115  
1043 2 Q7UR38 2 185 2.7 6 Q7ur38 rhodopirell 1116  
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1046 2 Q8WX15 2 187 2.7 6 Q8wx15 homo sapien 1119  
1047 2 Q9NIW6 2 187 2.7 6 Q9niW6 leishmania 1120  
1048 2 Q6ZF01 2 187 2.7 6 Q6zf01 oryza sativ 1121  
1049 2 Q74CC2 2 187 2.7 6 Q74cc2 geobacter s 1122  
1050 2 Q9DAD3 2 187 2.7 6 Q9dad3 m mus muscu 1123  
1051 2 Q8QRV4 2 187 2.7 6 Q8qrv4 chimpanzee 1124  
1052 2 BAC83430 2 187 2.7 6 BAC83430 oryza sat 1125  
1053 2 AAR35129 2 187 2.7 6 AAR35129 geobacter 1126

Q8u3K9 pyrococcus  
Q9c2B5 neurospora  
Q8ndz1 geobacter  
Q88J33 pseudomonas  
P03608 turnip yell  
P20125 turnip yell  
Q8Zus1 pyrobaculum  
Q96qv2 homo sapien  
Q7xw10 oryza sativ  
Q9yqS2 onion yello  
Q7ncm7 geobacter  
Q7uly6 rhodopirell  
Q9rtL5 deinococcus  
P90242 turnip yell  
P90243 turnip yell  
P90446 turnip yell  
Q6LC39 turnip yell  
A61c9374 turnip ye  
BAD04386 onion yel  
Q8mif8 bdellovibri  
Q895i6 clostridium  
Q9vdy0 hepatitis c  
Aaq23784 hepatitis c  
Cae80602 bdellovib  
P22728 gallus gall  
Q96xm4 sulfolobus  
Q7z4r8 homo sapien  
Q96my2 homo sapien  
Q7rfv8 plasmodium  
Q8ss22 encephalito  
Q46673 escherichia  
Q5vdx3 hepatitis c  
Q5vdx4 hepatitis c  
Q5vdx8 hepatitis c  
Q8bbk1 hepatitis c  
Q8bbk2 hepatitis c  
Q8bbk3 hepatitis c  
Q8jPg2 hepatitis c  
Q8jPg3 hepatitis c  
Q8jPg5 hepatitis c  
Q8jPg6 hepatitis c  
Q8jPg7 hepatitis c  
Aaq23786 hepatitis  
Aaq23790 hepatitis  
Aaq23791 hepatitis  
Q87703 aquifex aeo  
Q83l83 treponema p  
Q7riy9 plasmodium  
Q8ijs2 plasmodium  
Q8h2v1 oryza sativ  
Q7n527 photorhabdu  
Q8kaa4 bacillus ha  
Q5vdx0 hepatitis c  
Q6vdx1 hepatitis c  
Q6vdx2 hepatitis c  
Q6vdx5 hepatitis c  
Q6vdx6 hepatitis c  
Q5vdx9 hepatitis c  
Q8bbk4 hepatitis c  
Aaq23785 hepatitis c  
Aaq23788 hepatitis  
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Aaq23792 hepatitis  
Aaq23793 hepatitis  
Aaq23794 hepatitis  
Q6ee9 homo sapien  
Q84zf1 oryza sativ  
Q8e967 shewanella  
Q8ftk9 corynebacte  
Q8pdy9 xanthomonas  
Q5vdx7 hepatitis c  
Aaq23787 hepatitis



1127	194	2.7	6	1200	208	2	Q83455	Q83455 porcine ade
1128	194	2.7	6	1201	208	2	Q6WER4	Q6wer4 molva molva
1129	195	2.7	6	1202	208	2	AAQ62777	AAQ62777 molva mol
1130	195	2.7	6	1203	208	2	AAQ89059	AAQ89059 homo sapi
1131	195	2.7	6	1204	208	2	CAE81154	CAE81154 bdellovib
1132	195	2.7	6	1205	209	2	Q972W3	Q972w3 sulfolobus
1133	195	2.7	6	1206	209	2	Q6CF98	Q6cf98 yarrowia li
1134	196	2.7	6	1207	209	2	Q8WXX4	Q8wx4 homo sapien
1135	196	2.7	6	1208	209	2	Q72UA1	Q72ua1 leptospira
1136	197	2.7	6	1209	209	2	Q8FOT1	Q8fot1 leptospira
1137	197	2.7	6	1210	209	2	Q8YMX5	Q8ymx5 anabaena sp
1138	197	2.7	6	1211	209	2	Q8WERS	Q8wers broeme bros
1139	197	2.7	6	1212	209	2	Q9WPS6	Q9wps6 human immun
1140	197	2.7	6	1213	209	2	AAQ62776	AAQ62776 broeme br
1141	197	2.7	6	1214	209	2	AA669377	AA669377 leptospir
1142	197	2.7	6	1215	209	2	Q82B37	Q82b37 streptomyc
1143	197	2.7	6	1216	211	1	UPP_COREF	UPP_COREF
1144	197	2.7	6	1217	211	2	Q7PKQ0	Q7pkq0 anopheles g
1145	198	2.7	6	1218	211	2	Q91118	Q91118 pseudomonas
1146	198	2.7	6	1219	211	2	Q98H93	Q98h93 rhizobium l
1147	199	2.7	6	1220	211	2	Q8RAL5	Q8ral5 thermoanaer
1148	199	2.7	6	1221	211	2	Q6FCY2	Q6fcy2 acinetobact
1149	199	2.7	6	1222	211	2	Q91044	Q91044 human immun
1150	199	2.7	6	1223	211	2	Q91045	Q91045 human immun
1151	199	2.7	6	1224	211	2	Q9YPN6	Q9ypn6 human immun
1152	200	2.7	6	1225	211	2	Q9YPN7	Q9ypn7 human immun
1153	200	2.7	6	1226	211	2	Q9YPN8	Q9ypn8 human immun
1154	200	2.7	6	1227	212	1	VF09_VACCC	VF09_VACCC
1155	200	2.7	6	1228	212	1	VF09_VACCV	VF09_VACCV
1156	200	2.7	6	1229	212	1	VF09_VARV	VF09_VARV
1157	201	2.7	6	1230	212	2	Q6BS89	Q6bs89 debaryomyce
1158	201	2.7	6	1231	212	2	Q9UAU4	Q9uau4 caenorhabdi
1159	201	2.7	6	1232	212	2	Q7XEX7	Q7xex7 oryza sativ
1160	201	2.7	6	1233	212	2	Q94I38	Q94i38 oryza sativ
1161	201	2.7	6	1234	212	2	Q911E3	Q911e3 streptomyc
1162	201	2.7	6	1235	212	2	Q8RZQ4	Q8rzq4 rabbitpox v
1163	202	2.7	6	1236	212	2	Q76Q41	Q76q41 variola vir
1164	202	2.7	6	1237	212	2	Q76QL2	Q76ql2 cowpox viru
1165	202	2.7	6	1238	212	2	Q76ZW7	Q76zw7 vaccinia vi
1166	203	2.7	6	1239	212	2	Q775Z1	Q775z1 camelpox vi
1167	203	2.7	6	1240	212	2	Q77TM9	Q77tm9 vaccinia vi
1168	203	2.7	6	1241	212	2	Q8JLH2	Q8jlh2 ectromelia
1169	203	2.7	6	1242	212	2	Q9PXR7	Q9pxr7 variola vir
1170	203	2.7	6	1243	212	2	Q8QN09	Q8qn09 cowpox viru
1171	203	2.7	6	1244	212	2	Q8V2X3	Q8v2x3 camelpox vi
1172	203	2.7	6	1245	212	2	Q8V539	Q8v539 monkeypox v
1173	203	2.7	6	1246	212	2	AAf33900	AAf33900 vaccinia
1174	203	2.7	6	1247	212	2	CAB54633	CAB54633 variola m
1175	203	2.7	6	1248	212	2	AAO89327	AAO89327 vaccinia
1176	204	2.7	6	1249	212	2	AA896419	AA896419 vaccinia
1177	204	2.7	6	1250	212	2	CAD90597	CAD90597 cowpox vi
1178	204	2.7	6	1251	212	2	AA849750	AA849750 rabbitpox
1179	204	2.7	6	1252	212	2	AA10436	AA10436 vaccinia
1180	205	2.7	6	1253	213	2	Q5Z914	Q5z914 oryza sativ
1181	205	2.7	6	1254	213	2	Q7D766	Q7d766 mycobacteri
1182	205	2.7	6	1255	213	2	Q877V3	Q877v3 xyella fas
1183	205	2.7	6	1256	213	2	Q88P58	Q88p58 pseudomonas
1184	206	2.7	6	1257	213	2	Q9PCS8	Q9pcs8 xyella fas
1185	206	2.7	6	1258	213	2	Q9PD10	Q9pd10 xyella fas
1186	206	2.7	6	1259	213	2	Q8BJJ1	Q8bjj1 mus musculu
1187	206	2.7	6	1260	213	2	Q8R014	Q8r014 m bsp-like
1188	206	2.7	6	1261	213	2	BAD09883	BAD09883 oryza sat
1189	207	2.7	6	1262	214	1	RNFG_PSEAE	RNFG_PSEAE
1190	207	2.7	6	1263	214	2	Q9BX73	Q9bx73 homo sapien
1191	207	2.7	6	1264	214	2	Q8VYV2	Q8vyv2 daucus caro
1192	207	2.7	6	1265	215	2	Q6D7H1	Q6d7h1 erwinia car
1193	207	2.7	6	1266	216	2	Q8AX66	Q8ax66 brachydanio
1194	208	2.7	6	1267	218	1	IFEI_MAIZE	IFEI_MAIZE
1195	208	2.7	6	1268	218	1	TRPF_BACHD	TRPF_BACHD
1196	208	2.7	6	1269	218	2	Q7WGF2	Q7wgf2 bordetella
1197	208	2.7	6	1270	218	2	Q8DGM1	Q8dgm1 synecococc
1198	208	2.7	6	1271	218	2	Q8NU70	Q8nu70 corynebacte
1199	208	2.7	6	1272	218	2	Q8BT62	Q8bt62 mus musculu

1273	6	2.7	218	2	Caf18637	Caf18637 corynebact	1346	6	2.7	228	2	Q950J8	Q950J8 amnospermop
1274	6	2.7	219	1	CPY1_YEAST	P14306 saccharomyc	1347	6	2.7	228	2	Q748P3	Q748P3 geobacter s
1275	6	2.7	219	2	Q8LBM6	Q8LBM6 arabidopsis	1348	6	2.7	228	2	Q7NG55	Q7NG55 gloebacter
1276	6	2.7	219	2	Q9ZSC7	Q9ZSC7 ipomoea bat	1349	6	2.7	228	2	Q8B3X7	Q8B3X7 porcine lym
1277	6	2.7	219	2	Q9FIE4	Q9FIE4 arabidopsis	1350	6	2.7	228	2	AAR36350	AAR36350 geobacter
1278	6	2.7	219	2	Q740S7	Q740S7 mycobacteri	1351	6	2.7	229	2	Q94N59	Q94N59 amnospermop
1279	6	2.7	219	2	Q9A261	Q9A261 caulobacter	1352	6	2.7	229	2	Q950I9	Q950I9 amnospermop
1280	6	2.7	219	2	Q90XR7	Q90XR7 brachydanio	1353	6	2.7	229	2	Q950J1	Q950J1 amnospermop
1281	6	2.7	219	2	AAS03582	AAS03582 mycobacte	1354	6	2.7	229	2	Q950K1	Q950K1 amnospermop
1282	6	2.7	220	2	Q9E284	Q9E284 acanthinuce	1355	6	2.7	229	2	Q9CFK1	Q9CFK1 lactococcus
1283	6	2.7	220	2	Q6MHS9	Q6MHS9 bdellovibri	1356	6	2.7	229	2	Q8Y394	Q8Y394 ralstonia s
1284	6	2.7	220	2	Q82BH6	Q82BH6 streptomyce	1357	6	2.7	230	2	Q8TQZ7	Q8TQZ7 pyrococcus
1285	6	2.7	220	2	Q89JU3	Q89JU3 bradyrhizob	1358	6	2.7	230	2	Q94ND2	Q94ND2 amnospermop
1286	6	2.7	220	2	Q810W0	Q810W0 mus musculu	1359	6	2.7	230	2	Q94NK9	Q94NK9 amnospermop
1287	6	2.7	220	2	CAE78253	CAE78253 bdellovib	1360	6	2.7	230	2	Q94P19	Q94P19 amnospermop
1288	6	2.7	221	2	Q6SMZ7	Q6SMZ7 aotus azara	1361	6	2.7	230	2	Q950I8	Q950I8 amnospermop
1289	6	2.7	221	2	Q73WC0	Q73WC0 mycobacteri	1362	6	2.7	230	2	Q950J0	Q950J0 amnospermop
1290	6	2.7	221	2	Q8ETG6	Q8ETG6 oceanobacil	1363	6	2.7	230	2	Q950J3	Q950J3 amnospermop
1291	6	2.7	221	2	Q97H92	Q97H92 clostridium	1364	6	2.7	230	2	Q950J4	Q950J4 amnospermop
1292	6	2.7	221	2	AAR19667	AAR19667 aotus aza	1365	6	2.7	230	2	Q950J6	Q950J6 amnospermop
1293	6	2.7	221	2	AAS05057	AAS05057 mycobacte	1366	6	2.7	230	2	Q950J7	Q950J7 amnospermop
1294	6	2.7	222	2	Q6SN77	Q6SN77 cercocobus	1367	6	2.7	230	2	Q88R53	Q88R53 pseudomonas
1295	6	2.7	222	2	Q950J9	Q950J9 amnospermop	1368	6	2.7	231	2	Q92245	Q92245 magnaporthe
1296	6	2.7	222	2	Q40350	Q40350 mantoniella	1369	6	2.7	231	2	Q40332	Q40332 mantoniella
1297	6	2.7	222	2	AAR19587	AAR19587 cercocebu	1370	6	2.7	231	2	Q05483	Q05483 mantoniella
1298	6	2.7	223	2	Q9N9R2	Q9N9R2 leishmania	1371	6	2.7	231	2	Q05484	Q05484 mantoniella
1299	6	2.7	223	2	Q950I5	Q950I5 amnospermop	1372	6	2.7	231	2	Q40351	Q40351 mantoniella
1300	6	2.7	223	2	Q94J89	Q94J89 oryza sativ	1373	6	2.7	231	2	AAB06573	AAB06573 magnapor
1301	6	2.7	223	2	Q72SP3	Q72SP3 leptospira	1374	6	2.7	232	2	Q8TPY1	Q8TPY1 methanoscarc
1302	6	2.7	223	2	Q8F2W1	Q8F2W1 leptospira	1375	6	2.7	232	2	Q6BNR3	Q6BNR3 debaryomyce
1303	6	2.7	223	2	Q921U2	Q921U2 mus musculu	1376	6	2.7	232	2	Q7U9M6	Q7U9M6 synecococc
1304	6	2.7	223	2	Q90UL1	Q90UL1 mus musculu	1377	6	2.7	232	2	Q87FU6	Q87FU6 vibrio para
1305	6	2.7	223	2	AAS69935	AAS69935 leptospir	1378	6	2.7	233	2	Q7MTH4	Q7MTH4 porphyromon
1306	6	2.7	224	2	Q868T8	Q868T8 plasmodium	1379	6	2.7	233	2	Q8C9U2	Q8C9U2 mus musculu
1307	6	2.7	224	2	Q8S0H3	Q8S0H3 oryza sativ	1380	6	2.7	235	2	Q9VXV3	Q9VXV3 drosophila
1308	6	2.7	224	2	Q6NPF49	Q6NPF49 bdellovibri	1381	6	2.7	235	2	Q7F4G5	Q7F4G5 oryza sativ
1309	6	2.7	224	2	Q7NCD6	Q7NCD6 gloebacter	1382	6	2.7	235	2	Q9LRF3	Q9LRF3 oryza sativ
1310	6	2.7	224	2	CAE78949	CAE78949 bdellovib	1383	6	2.7	235	2	Q07197	Q07197 mycobacteri
1311	6	2.7	225	1	TLIV_ARATH	TLIV_ARATH arabidopsi	1384	6	2.7	235	2	Q7TY32	Q7TY32 mycobacteri
1312	6	2.7	225	2	Q950I7	Q950I7 amnospermop	1385	6	2.7	235	2	Q82885	Q82885 salmonella
1313	6	2.7	225	2	Q950J5	Q950J5 amnospermop	1386	6	2.7	235	2	Q82QP8	Q82QP8 bacterioph
1314	6	2.7	225	2	Q6HFD0	Q6HFD0 bacillus th	1387	6	2.7	236	1	VEAD_BP22	VEAD_BP22 bacteri
1315	6	2.7	225	2	Q72D81	Q72D81 desulfovibr	1388	6	2.7	236	2	Q82XH8	Q82XH8 pyrobaculum
1316	6	2.7	225	2	Q733F4	Q733F4 bacillus ce	1389	6	2.7	236	2	Q6J832	Q6J832 oryza sativ
1317	6	2.7	225	2	Q81V26	Q81V26 bacillus an	1390	6	2.7	236	2	Q75K82	Q75K82 oryza sativ
1318	6	2.7	225	2	Q8Y170	Q8Y170 ralstonia s	1391	6	2.7	236	2	Q8ERS3	Q8ERS3 oceanobacil
1319	6	2.7	225	2	AAM13197	AAM13197 arabidops	1392	6	2.7	236	2	AAT07584	AAT07584 oryza sat
1320	6	2.7	225	2	AAP13382	AAP13382 arabidops	1393	6	2.7	236	2	AAT10384	AAT10384 oryza sat
1321	6	2.7	225	2	AAS42609	AAS42609 bacillus	1394	6	2.7	237	1	Y090_HAEIN	Y090_HAEIN haemophilu
1322	6	2.7	225	2	AAS95528	AAS95528 desulfovi	1395	6	2.7	237	2	Q9SBU2	Q9SBU2 cichorium i
1323	6	2.7	225	2	AAT32843	AAT32843 bacillus	1396	6	2.7	237	2	Q9FOX5	Q9FOX5 pseudomonas
1324	6	2.7	226	2	Q950J2	Q950J2 amnospermop	1397	6	2.7	237	2	Q72IH8	Q72IH8 thermus the
1325	6	2.7	226	2	Q950K0	Q950K0 amnospermop	1398	6	2.7	237	2	Q74IA3	Q74IA3 lactobacill
1326	6	2.7	226	2	Q7MQ69	Q7MQ69 vibrio vuln	1399	6	2.7	237	2	Q8D0N1	Q8D0N1 versinia pe
1327	6	2.7	226	2	Q82NR1	Q82NR1 streptomyce	1400	6	2.7	237	2	Q93RV7	Q93RV7 streptomyce
1328	6	2.7	227	1	PYRH_ARPERE	PYRH_ARPERE aeropyrum p	1401	6	2.7	237	2	AAS09435	AAS09435 lactobacac
1329	6	2.7	227	2	Q8IEW0	Q8IEW0 tripanosoma	1402	6	2.7	237	2	AAS81496	AAS81496 thermus t
1330	6	2.7	227	2	Q7V6P6	Q7V6P6 chrysiptera	1403	6	2.7	238	2	Q9SCP1	Q9SCP1 arabidopsi
1331	6	2.7	227	2	Q7YDQ2	Q7YDQ2 pomacentrus	1404	6	2.7	238	2	Q8FPD9	Q8FPD9 corynebacte
1332	6	2.7	227	2	Q7YDX0	Q7YDX0 chromis ret	1405	6	2.7	238	2	Q9KEL6	Q9KEL6 bacillus ha
1333	6	2.7	227	2	Q7YDX1	Q7YDX1 chromis ret	1406	6	2.7	238	2	Q8CBZ4	Q8CBZ4 mus musculu
1334	6	2.7	227	2	Q7YIP4	Q7YIP4 strongylura	1407	6	2.7	238	2	Q8CBZ4	Q8CBZ4 mus musculu
1335	6	2.7	227	2	Q9T7U3	Q9T7U3 anechura bi	1408	6	2.7	239	1	VV_NDVU2	VV_NDVU2 newcastle d
1336	6	2.7	227	2	Q9TBL3	Q9TBL3 chordelles	1409	6	2.7	239	2	Q7QGS0	Q7QGS0 anopheles g
1337	6	2.7	227	2	Q6Z8Q7	Q6Z8Q7 oryza sativ	1410	6	2.7	239	2	Q6HIV2	Q6HIV2 bacillus th
1338	6	2.7	227	2	Q94OM1	Q94OM1 arabidopsi	1411	6	2.7	239	2	Q746P8	Q746P8 thermus the
1339	6	2.7	227	2	Q8ZDW1	Q8ZDW1 versinia pe	1412	6	2.7	239	2	Q8XRM6	Q8XRM6 ralstonia s
1340	6	2.7	227	2	BAD10043	BAD10043 oryza sat	1413	6	2.7	239	2	Q8XVC4	Q8XVC4 ralstonia s
1341	6	2.7	227	2	AAS62431	AAS62431 versinia	1414	6	2.7	239	2	AAS82334	AAS82334 thermus t
1342	6	2.7	228	1	MTGA_CHRVO	MTGA_CHRVO chromobacte	1415	6	2.7	240	2	Q8N2V9	Q8N2V9 homo sapien
1343	6	2.7	228	2	Q94N53	Q94N53 amnospermop	1416	6	2.7	240	2	Q7PEY3	Q7PEY3 anopheles g
1344	6	2.7	228	2	Q950I4	Q950I4 amnospermop	1417	6	2.7	240	2	P73822	P73822 synecocyst
1345	6	2.7	228	2	Q950I6	Q950I6 amnospermop	1418	6	2.7	240	2	Q8FM52	Q8FM52 corynebacte

1419	6	2.7	240	2	Q8NLI7	Q8nli7 corynebacte
1420	6	2.7	240	2	Q82D63	Q82d63 listeria in
1421	6	2.7	240	2	Q8Y8E6	Q8y8e6 listeria m
1422	6	2.7	240	2	Q721K8	Q721k8 listeria m
1423	6	2.7	240	2	CAF20982	CAF20982 corynebac
1424	6	2.7	240	2	AAT03756	AAT03756 listeria
1425	6	2.7	241	2	Q7PWV0	Q7pwv0 anopheles g
1426	6	2.7	241	2	Q7YU93	Q7yu93 drosophila
1427	6	2.7	242	1	COMB_SYNXP	Q7u7h6 synchococc
1428	6	2.7	242	1	DAB2_RHIME	Q69783 rhizobium m
1429	6	2.7	242	1	RL1_STRSF	Q79796 streptomyc
1430	6	2.7	242	2	Q7KV06	Q7kv06 drosophila
1431	6	2.7	242	2	Q6YW57	Q6yw57 oryza sativ
1432	6	2.7	242	2	Q8HYS7	Q8hys7 pseudomonas
1433	6	2.7	242	2	Q8XPI6	Q8xpi6 ralstonia s
1434	6	2.7	242	2	Q6O6F2	Q6g6f2 brachydanio
1435	6	2.7	242	2	BAD05832	BAD05832 oryza sat
1436	6	2.7	242	2	AAS66638	AAS66638 brachydan
1437	6	2.7	243	1	AMP_RAT	P24338 rattus norv
1438	6	2.7	243	2	Q88C79	Q88c79 pseudomonas
1439	6	2.7	243	2	Q64608	Q64608 rattus norv
1440	6	2.7	244	1	RS2_BUCAP	Q8x9t0 buchnera ap
1441	6	2.7	244	2	Q75E00	Q75ew0 ashbya goes
1442	6	2.7	244	2	Q875C8	Q875c8 podospira a
1443	6	2.7	244	2	Q76E54	Q76e54 homo sapien
1444	6	2.7	244	2	Q73WV2	Q73wv2 mycobacteri
1445	6	2.7	244	2	Q7U7B8	Q7u7b8 synchococc
1446	6	2.7	244	2	Q8BRX4	Q8erx4 oceanobacil
1447	6	2.7	244	2	AAS04875	AAS04875 mycobacte
1448	6	2.7	244	2	BAD12560	BAD12560 homo sapi
1449	6	2.7	244	2	AAS50334	AAS50334 ashbya go
1450	6	2.7	245	1	YH6C_SCHPO	Q9P7x3 schizosacch
1451	6	2.7	246	2	Q8T8Q0	Q8t8q0 drosophila
1452	6	2.7	246	2	Q7F241	Q7f241 oryza sativ
1453	6	2.7	246	2	Q8LN58	Q8ln58 oryza sativ
1454	6	2.7	246	2	Q6NEB0	Q6neb0 parachlamyd
1455	6	2.7	246	2	Q6N531	Q6n531 rhodopseudo
1456	6	2.7	246	2	Q820B6	Q820b6 coxiella bu
1457	6	2.7	246	2	AAL68388	AAL68388 drosophil
1458	6	2.7	246	2	CAE28593	CAE28593 rhodopneu
1459	6	2.7	246	2	CAF23089	CAF23089 parachlam
1460	6	2.7	247	2	Q6PEW4	Q6pew4 homo sapien
1461	6	2.7	247	2	Q8RL61	Q8rl61 pseudomonas
1462	6	2.7	247	2	Q68216	Q68216 neisseria m
1463	6	2.7	247	2	Q8PNE4	Q8pne4 xanthomonas
1464	6	2.7	247	2	Q8XSW4	Q8xsw4 ralstonia s
1465	6	2.7	247	2	AAH57838	AAH57838 homo sapi
1466	6	2.7	248	1	1433_CABEL	P41932 caenorhabdi
1467	6	2.7	248	1	Y4GE_RHISN	P53461 rhizobium s
1468	6	2.7	248	2	Q6ZSN9	Q6zsn9 homo sapien
1469	6	2.7	248	2	Q8GPN1	Q8gpn1 myroides od
1470	6	2.7	248	2	Q72HA9	Q72ha9 thermus the
1471	6	2.7	248	2	Q721J1	Q721j1 thermus the
1472	6	2.7	248	2	Q7V3E2	Q7v3e2 prochloroco
1473	6	2.7	248	2	BAC86909	BAC86909 homo sapi
1474	6	2.7	248	2	AAS81483	AAS81483 thermus t
1475	6	2.7	248	2	AAS81928	AAS81928 thermus t
1476	6	2.7	249	2	Q54758	Q54758 synchococc
1477	6	2.7	249	2	Q7F3L0	Q7f3l0 brachydanio
1478	6	2.7	250	2	Q6DD86	Q6dd86 homo sapien
1479	6	2.7	250	2	Q959A7	Q959a7 galaxias an
1480	6	2.7	250	2	Q98RD49	Q98rd49 streptomyc
1481	6	2.7	250	2	Q98NV1	Q98nv1 rhizobium l
1482	6	2.7	250	2	Q9A525	Q9a525 carlobacter
1483	6	2.7	250	2	Q7M5S9	Q7m5s9 porcine ade
1484	6	2.7	251	1	YRPE_BACSU	O05410 bacillus su
1485	6	2.7	251	2	Q98FV6	Q98fv6 arabidopsis
1486	6	2.7	251	2	Q7CSA4	Q7cea4 agrobacteri
1487	6	2.7	251	2	Q7TUT12	Q7td12 agrobacteri
1488	6	2.7	251	2	Q77UT76	Q7tut6 prochloroco
1489	6	2.7	251	2	Q81W90	Q81w90 bacillus an
1490	6	2.7	251	2	Q9X8E2	Q9x8e2 streptomyc
1491	6	2.7	251	2	Q985W4	Q985w4 rhizobium l
1492	6	2.7	251	2	Q98HG9	Q98hg9 rhizobium l
1493	6	2.7	251	2	Q93J26	Q93j26 streptomyc
1494	6	2.7	251	2	Q8UAK4	Q8uak4 agrobacteri
1495	6	2.7	251	2	Q6LLO8	Q6llq5 photobacteri
1496	6	2.7	251	2	Q8VCO8	Q8vc08 mus musculu
1497	6	2.7	251	2	CAG21773	CAG21773 photobact
1498	6	2.7	251	2	AAT33212	AAT33212 bacillus
1499	6	2.7	252	2	Q30850	Q30850 oryctolagus
1500	6	2.7	252	2	Q7F8T0	Q7f8t0 oryza sativ

## ALIGNMENTS

## RESULT 1

PBPL\_HUMAN

ID\_PBPL\_HUMAN STANDARD; PRT; 223 AA.

AC Q96S56; Q8WW74;

DT 05-JUL-2004 (Rel. 44, Created)

DT 05-JUL-2004 (Rel. 44, Last sequence update)

DT 05-JUL-2004 (Rel. 44, Last annotation update)

DE PBP family protein precursor (UNQ1933/PRO4408).

OS Homo sapiens (Human).

OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

NCBI\_TaxID=9606;

SEQUENCE FROM N.A.

Zhang W., Li N., Wan T., Cao X.,

Submitted (MAY-2001) to the ENBL/GenBank/DBJ databases.

[1]

SEQUENCE FROM N.A.

Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D., Brush J.,

Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,

Eaton D., Foster J., Grimaldi C., Gu Q., Hass P.E., Heldens S.,

Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,

Lewis L., Liao D., Mark M., Robbie E., Sanchez C., Schoenfeld J.,

Seehagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A.,

Vandlen R., Watanabe C., Wileand D., Woods K., Xie M.-H., Yansura D.,

Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A., Wood W.I.,

Godowski P., Gray A.,

"The secreted protein discovery initiative (SPDI), a large-scale

effort to identify novel human secreted and transmembrane proteins: a

bioinformatics assessment."

Genome Res. 13:2265-2270(2003).

[3]

SEQUENCE FROM N.A.

TISUS=lung;

MEDLINE=2238257; PubMed=12477932; DOI=10.1073/pnas.242603899;

Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,

Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

Brownstein M.J., Udwin T.B., Toshiyuki S., Carninci P., Prange C.,

Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

Fahey J., Helton E., Kettman M., Madan A.C., Rodrigues S., Sanchez A.,

Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,

Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,

Butterfield V.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,

Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;

"Generation and initial analysis of more than 15,000 full-length human

and mouse cDNA sequences."

Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).

CC -1- SURCELLULAR LOCATION: Secreted (Potential).

CC -1- SIMILARITY: Belongs to the phosphatidylethanolamine-binding

protein family.



DR ProDom; PD004330; PBP; 1.  
 DR PROSITE; PS01220; PBP; 1.  
 FT NON TER 151 151  
 SQ SEQUENCE 151 AA; 17038 MW; FCC66D7F1D7E3974 CRC64;

Query Match 4.5%; Score 10; DB 2; Length 151;  
 Best Local Similarity 100.0%; Pred. No. 0.093;  
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 92 LVMVDPDAPS 101  
 Db 67 LVMVDPDAPS 76  
 |||||

## RESULT 4

ID CAES3888 PRELIMINARY; PRT; 151 AA.  
 AC CAES3888;  
 DT 02-MAR-2004 (TrEMBLrel. 27, Created)  
 DT 02-MAR-2004 (TrEMBLrel. 27, Last sequence update)  
 DE Putative PBP protein (fragment).  
 GN HD3A.  
 OS Triticum aestivum (wheat).  
 OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooideae;  
 OC Triticeae; Triticum.  
 OX NCBI\_TaxID=4565;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=cv. Chinese Spring; TISSUE=Spike at heading stage;  
 RA Ciaffi M., Tanzarella O.A., Porceddu E., Paolacci A.R., d'Alcizio E.;  
 RT "Identification and characterization of gene sequences expressed in  
 wheat spikelets at the heading stage";  
 RL Submitted (JUL-2003) to the EMBL/GenBank/DBSJ databases.  
 DR EMBL; AJ577367; CAES3888.1; --  
 FT NON TER 151 151  
 SQ SEQUENCE 151 AA; 17038 MW; FCC66D7F1D7E3974 CRC64;

Query Match 4.5%; Score 10; DB 2; Length 151;  
 Best Local Similarity 100.0%; Pred. No. 0.093;  
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 92 LVMVDPDAPS 101  
 Db 67 LVMVDPDAPS 76  
 |||||

## RESULT 5

ID Q75QX2 PRELIMINARY; PRT; 173 AA.  
 AC Q75QX2;  
 DT 05-JUL-2004 (TrEMBLrel. 27, Created)  
 DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)  
 DE Flowering locus T.  
 GN Name=PnFT3a;  
 OS Populus nigra (Lombardy poplar).  
 OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids;  
 OC eurosids I; Malpighiales; Salicaceae; Populus.  
 OX NCBI\_TaxID=3691;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RA Igasaki T., Nishiguchi M., Nanjo T., Kotoda N.;  
 RL Submitted (JAN-2004) to the EMBL/GenBank/DBSJ databases.  
 DR EMBL; AB161107; BAD08336.1; --  
 DR InterPro; IPR001858; PBP.  
 DR InterPro; IPR008914; PBP.  
 DR Pfam; PF01161; PBP; 1.  
 DR ProDom; PD004330; PBP; 1.  
 DR PROSITE; PS01220; PBP; 1.  
 SQ SEQUENCE 173 AA; 19521 MW; 291C4FC5A50754B2 CRC64;

Query Match 4.5%; Score 10; DB 2; Length 173;  
 Best Local Similarity 100.0%; Pred. No. 0.1;  
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 92 LVMVDPDAPS 101  
 Db 66 LVMVDPDAPS 75  
 |||||

## RESULT 6

ID Q6R3R0 PRELIMINARY; PRT; 174 AA.  
 AC Q6R3R0;  
 DT 05-JUL-2004 (TrEMBLrel. 27, Created)  
 DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)  
 DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)  
 DE Flowering locus T-like protein FT1.  
 OS Populus deltoides (poplar).  
 OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids;  
 OC eurosids I; Malpighiales; Salicaceae; Populus.  
 OX NCBI\_TaxID=3696;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RA Yuceer C., Land S.B. Jr., Luthé D.S.;  
 RL Submitted (DEC-2003) to the EMBL/GenBank/DBSJ databases.  
 DR EMBL; AY515152; AAS00056.1; --  
 DR InterPro; IPR001858; PBP.  
 DR InterPro; IPR008914; PBP.  
 DR Pfam; PF01161; PBP; 1.  
 DR ProDom; PD004330; PBP; 1.  
 DR PROSITE; PS01220; PBP; 1.  
 SQ SEQUENCE 174 AA; 19655 MW; B70F1787152584D7 CRC64;

Query Match 4.5%; Score 10; DB 2; Length 174;  
 Best Local Similarity 100.0%; Pred. No. 0.11;  
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 92 LVMVDPDAPS 101  
 Db 66 LVMVDPDAPS 75  
 |||||

## RESULT 7

ID Q75QW8 PRELIMINARY; PRT; 174 AA.  
 AC Q75QW8;  
 DT 05-JUL-2004 (TrEMBLrel. 27, Created)  
 DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)  
 DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)  
 DE Flowering locus T like protein.  
 GN Name=MdFT;  
 OS Malus domestica (Apple) (Malus sylvestris).  
 OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids;  
 OC eurosids I; Rosales; Rosaceae; Maloideae; Malus.  
 OX NCBI\_TaxID=3750;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RA Kotoda N., Igasaki T., Abe K.;  
 RL Submitted (JAN-2004) to the EMBL/GenBank/DBSJ databases.  
 DR EMBL; AB161112; BAD08340.1; --  
 DR InterPro; IPR001858; PBP.  
 DR InterPro; IPR008914; PBP.  
 DR Pfam; PF01161; PBP; 1.  
 DR ProDom; PD004330; PBP; 1.  
 DR PROSITE; PS01220; PBP; 1.  
 SQ SEQUENCE 174 AA; 19532 MW; 3714BF80E0E290FA CRC64;

Query Match 4.5%; Score 10; DB 2; Length 174;  
 Best Local Similarity 100.0%; Pred. No. 0.11;  
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 92 LVMVDPDAPS 101  
|||||

Db 66 LVMVDPDAPS 75

## RESULT 8

Q76BW3 PRELIMINARY; PRT; 174 AA.

AC Q76BW3; 05-JUL-2004 (TREMBlrel. 27, Created)

DT 05-JUL-2004 (TREMBlrel. 27, Last sequence update)

DE 05-JUL-2004 (TREMBlrel. 27, Last annotation update)

DE Flowering locus T.

GN Name=PnFT1c;

OS Populus nigra (Lombardy poplar).

OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids;

OC eurosids I; Malpighiales; Salicaceae; Populus.

OX NCBI\_TaxID=3691;

RN [1]

RP SEQUENCE FROM N.A.

RA Igasaki T., Nanjo T., Nishiguchi M., Kotoda N.;

RL Submitted (MAY-2003) to the EMBL/GenBank/DBJ databases.

DR EMBL; AB110613; BAD02372.1; -

DR InterPro; IPR001858; PBP.

DR InterPro; IPR008914; PEBP.

DR Pfam; PF01161; PBP; 1.

DR ProDom; PD004330; PBP; 1.

DR PROSITE; PS01220; PBP; 1.

SQ SEQUENCE 174 AA; 19655 MW; B70F1787152584D7 CRC64;

## Query Match

Best Local Similarity 4.5%; Score 10; DB 2; Length 174;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 92 LVMVDPDAPS 101  
|||||

Db 66 LVMVDPDAPS 75

## RESULT 9

Q76BW4

AC Q76BW4; PRELIMINARY; PRT; 174 AA.

DT 05-JUL-2004 (TREMBlrel. 27, Created)

DT 05-JUL-2004 (TREMBlrel. 27, Last sequence update)

DE 05-JUL-2004 (TREMBlrel. 27, Last annotation update)

DE Flowering locus T.

GN Name=PnFT2b;

OS Populus nigra (Lombardy poplar).

OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids;

OC eurosids I; Malpighiales; Salicaceae; Populus.

OX NCBI\_TaxID=3691;

RN [1]

RP SEQUENCE FROM N.A.

RA Igasaki T., Nanjo T., Nishiguchi M., Kotoda N.;

RL Submitted (MAY-2003) to the EMBL/GenBank/DBJ databases.

DR EMBL; AB110612; BAD02371.1; -

DR InterPro; IPR001858; PBP.

DR InterPro; IPR008914; PEBP.

DR Pfam; PF01161; PBP; 1.

DR ProDom; PD004330; PBP; 1.

DR PROSITE; PS01220; PBP; 1.

SQ SEQUENCE 174 AA; 19590 MW; 929827E93409E005 CRC64;

## Query Match

Best Local Similarity 4.5%; Score 10; DB 2; Length 174;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 92 LVMVDPDAPS 101  
|||||

Db

66 LVMVDPDAPS 75

## RESULT 10

Q76CA4

AC Q76CA4; PRELIMINARY; PRT; 174 AA.

DT 05-JUL-2004 (TREMBlrel. 27, Created)

DT 05-JUL-2004 (TREMBlrel. 27, Last sequence update)

DE 05-JUL-2004 (TREMBlrel. 27, Last annotation update)

DE Flowering locus T.

GN Name=PnFT2a;

OS Populus nigra (Lombardy poplar).

OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids;

OC eurosids I; Malpighiales; Salicaceae; Populus.

OX NCBI\_TaxID=3691;

RN [1]

RP SEQUENCE FROM N.A.

RA Igasaki T., Nanjo T., Nishiguchi M., Kotoda N.;

RL Submitted (MAY-2003) to the EMBL/GenBank/DBJ databases.

DR EMBL; AB110009; BAD01576.1; -

DR InterPro; IPR001858; PBP.

DR InterPro; IPR008914; PEBP.

DR Pfam; PF01161; PBP; 1.

DR ProDom; PD004330; PBP; 1.

DR PROSITE; PS01220; PBP; 1.

SQ SEQUENCE 174 AA; 19563 MW; 9289C61925E81005 CRC64;

## Query Match

Best Local Similarity 4.5%; Score 10; DB 2; Length 174;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 92 LVMVDPDAPS 101  
|||||

Db 66 LVMVDPDAPS 75

## RESULT 11

Q76CC3

AC Q76CC3; PRELIMINARY; PRT; 174 AA.

DT 05-JUL-2004 (TREMBlrel. 27, Created)

DT 05-JUL-2004 (TREMBlrel. 27, Last sequence update)

DE 05-JUL-2004 (TREMBlrel. 27, Last annotation update)

DE Flowering locus T.

GN Name=PnFT1b; Synonyms=PnFT4a;

OS Populus nigra (Lombardy poplar).

OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids;

OC eurosids I; Malpighiales; Salicaceae; Populus.

OX NCBI\_TaxID=3691;

RN [1]

RP SEQUENCE FROM N.A.

RA Igasaki T., Nanjo T., Nishiguchi M., Kotoda N.;

RL Submitted (MAY-2003) to the EMBL/GenBank/DBJ databases.

RN [2]

RP SEQUENCE FROM N.A.

RA Igasaki T., Nishiguchi M., Nanjo T., Kotoda N.;

RL Submitted (JAN-2004) to the EMBL/GenBank/DBJ databases.

DR EMBL; AB109804; BAD01561.1; -

DR EMBL; AB161108; BAD08337.1; -

DR InterPro; IPR001858; PBP.

DR InterPro; IPR008914; PEBP.

DR Pfam; PF01161; PBP; 1.

DR ProDom; PD004330; PBP; 1.

DR PROSITE; PS01220; PBP; 1.

SQ SEQUENCE 174 AA; 19629 MW; A34A03C2152584D7 CRC64;

## Query Match

Best Local Similarity 4.5%; Score 10; DB 2; Length 174;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 92 LVMVDPDAPS 101  
|||||  
Db 66 LVMVDPDAPS 75

RESULT 12  
Q76EQ5 PRELIMINARY; PRT; 174 AA.  
AC Q76EQ5;  
DT 05-JUL-2004 (TrEMBLrel. 27, Created)  
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)  
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)  
DE Flowering locus T.  
GN Name=PnFT1a; Synonyms=PnFT4b;  
OS Populus nigra (Lombardy poplar).  
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids;  
OC eurosids I; Malpighiales; Salicaceae; Populus.  
OX NCBI\_TaxID=3691;  
RN [1]  
RP SEQUENCE FROM N.A.  
RA Igasaki T., Nishiguchi M., Furtamura N., Nanjo T., Kotoda N.;  
RT Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.  
RL [2]  
RP SEQUENCE FROM N.A.  
RA Igasaki T., Nishiguchi M., Nanjo T., Kotoda N.;  
RL Submitted (JAN-2004) to the EMBL/GenBank/DBJ databases.  
DR EMBL; AB106111; BAD01612.1; -;  
DR EMBL; AB161109; BAD08338.1; -;  
DR InterPro; IPR001858; PBP.  
DR InterPro; IPR008914; PBP.  
DR Pfam; PF01161; PBP; 1.  
DR ProDom; PD004330; PBP; 1.  
DR PROSITE; PS01220; PBP; 1.  
SQ SEQUENCE 174 AA; 19661 MW; BEE0B4C21531C087 CRC64;

Query Match 4.5%; Score 10; DB 2; Length 174;  
Best Local Similarity 100.0%; Pred. No. 0.11;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 92 LVMVDPDAPS 101  
|||||  
Db 66 LVMVDPDAPS 75

RESULT 13  
BAD01561 PRELIMINARY; PRT; 174 AA.  
AC BAD01561;  
DT 02-MAR-2004 (TrEMBLrel. 27, Created)  
DT 02-MAR-2004 (TrEMBLrel. 27, Last sequence update)  
DT 02-MAR-2004 (TrEMBLrel. 27, Last annotation update)  
DE Flowering locus T.  
GN PnFT1b.  
OS Populus nigra (Lombardy poplar).  
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids;  
OC eurosids I; Malpighiales; Salicaceae; Populus.  
OX NCBI\_TaxID=3691;  
RN [1]  
RP SEQUENCE FROM N.A.  
RA Igasaki T., Nanjo T., Nishiguchi M., Kotoda N.;  
RT "Populus nigra mRNA for flowering locus T (PnFT1b), complete cds.";  
RL Submitted (MAY-2003) to the EMBL/GenBank/DBJ databases.  
DR EMBL; AB109804; BAD01561.1; -;  
SQ SEQUENCE 174 AA; 19629 MW; A34A0C32152584D7 CRC64;

Query Match 4.5%; Score 10; DB 2; Length 174;  
Best Local Similarity 100.0%; Pred. No. 0.11;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 92 LVMVDPDAPS 101  
|||||

Db 66 LVMVDPDAPS 75

RESULT 14  
BAD01576 PRELIMINARY; PRT; 174 AA.  
AC BAD01576;  
DT 02-MAR-2004 (TrEMBLrel. 27, Created)  
DT 02-MAR-2004 (TrEMBLrel. 27, Last sequence update)  
DT 02-MAR-2004 (TrEMBLrel. 27, Last annotation update)  
DE Flowering locus T.  
GN PnFT2A.  
OS Populus nigra (Lombardy poplar).  
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids;  
OC eurosids I; Malpighiales; Salicaceae; Populus.  
OX NCBI\_TaxID=3691;  
RN [1]  
RP SEQUENCE FROM N.A.  
RA Igasaki T., Nanjo T., Nishiguchi M., Kotoda N.;  
RT "Populus nigra mRNA for flowering locus T (PnFT2a), complete cds.";  
RL Submitted (MAY-2003) to the EMBL/GenBank/DBJ databases.  
DR EMBL; AB110009; BAD01576.1; -;  
SQ SEQUENCE 174 AA; 19563 MW; 9289C61925E81005 CRC64;

Query Match 4.5%; Score 10; DB 2; Length 174;  
Best Local Similarity 100.0%; Pred. No. 0.11;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 92 LVMVDPDAPS 101  
|||||  
Db 66 LVMVDPDAPS 75

RESULT 15  
BAD01612 PRELIMINARY; PRT; 174 AA.  
AC BAD01612;  
DT 02-MAR-2004 (TrEMBLrel. 27, Created)  
DT 02-MAR-2004 (TrEMBLrel. 27, Last sequence update)  
DT 02-MAR-2004 (TrEMBLrel. 27, Last annotation update)  
DE Flowering locus T.  
GN PnFT1a.  
OS Populus nigra (Lombardy poplar).  
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids;  
OC eurosids I; Malpighiales; Salicaceae; Populus.  
OX NCBI\_TaxID=3691;  
RN [1]  
RP SEQUENCE FROM N.A.  
RA Igasaki T., Nishiguchi M., Furtamura N., Nanjo T., Kotoda N.;  
RT "Populus nigra flowering locus T (FT) gene complete cds.";  
RL Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.  
DR EMBL; AB106111; BAD01612.1; -;  
SQ SEQUENCE 174 AA; 19661 MW; BEE0B4C21531C087 CRC64;

Query Match 4.5%; Score 10; DB 2; Length 174;  
Best Local Similarity 100.0%; Pred. No. 0.11;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 92 LVMVDPDAPS 101  
|||||  
Db 66 LVMVDPDAPS 75

Search completed: January 31, 2005, 15:14:16  
Job time : 133.secs







87	223	100.0	223	14	US-10-223-090-306	Sequence 306, App	160	85	38.1	205	16	US-10-403-142-116	Sequence 116, App
88	223	100.0	223	14	US-10-219-070-232	Sequence 232, App	161	85	38.1	209	16	US-10-403-142-112	Sequence 112, App
89	223	100.0	223	14	US-10-219-472-232	Sequence 232, App	162	72	32.3	86	10	US-09-895-298-112	Sequence 112, App
90	223	100.0	223	14	US-10-219-527-232	Sequence 232, App	163	72	32.3	86	10	US-09-895-298-224	Sequence 224, App
91	223	100.0	223	14	US-10-227-877-232	Sequence 232, App	164	72	32.3	86	10	US-10-885-039-112	Sequence 112, App
92	223	100.0	223	14	US-10-223-087-306	Sequence 306, App	165	72	32.3	86	10	US-10-885-039-224	Sequence 224, App
93	223	100.0	223	14	US-10-223-083-306	Sequence 306, App	166	59	26.5	84	17	US-10-425-115-312177	Sequence 312177, App
94	223	100.0	223	14	US-10-216-166-232	Sequence 232, App	167	23	10.3	23	10	US-09-895-298-220	Sequence 220, App
95	223	100.0	223	14	US-10-218-612-232	Sequence 232, App	168	23	10.3	23	10	US-09-895-298-219	Sequence 219, App
96	223	100.0	223	14	US-10-223-089-306	Sequence 306, App	169	22	9.9	24	10	US-09-895-298-219	Sequence 219, App
97	223	100.0	223	14	US-10-035-977-61	Sequence 61, Appl	170	22	9.9	24	10	US-10-885-039-219	Sequence 219, App
98	223	100.0	223	14	US-10-216-163-232	Sequence 232, App	171	20	9.0	20	10	US-10-885-039-221	Sequence 221, App
99	223	100.0	223	14	US-10-223-081-306	Sequence 306, App	172	20	9.0	20	10	US-09-895-298-222	Sequence 222, App
100	223	100.0	223	14	US-10-218-765-232	Sequence 232, App	173	17	7.6	17	10	US-10-885-039-222	Sequence 222, App
101	223	100.0	223	14	US-10-219-063-232	Sequence 232, App	174	17	7.6	17	10	US-09-895-298-217	Sequence 217, App
102	223	100.0	223	14	US-10-219-066-232	Sequence 232, App	175	14	6.3	21	10	US-10-885-039-217	Sequence 217, App
103	223	100.0	223	14	US-10-219-067-232	Sequence 232, App	176	14	6.3	21	10	US-09-895-298-215	Sequence 215, App
104	223	100.0	223	14	US-10-219-068-232	Sequence 232, App	177	14	6.3	83	10	US-09-895-298-215	Sequence 215, App
105	223	100.0	223	14	US-10-219-069-232	Sequence 232, App	178	14	6.3	83	10	US-10-885-039-215	Sequence 215, App
106	223	100.0	223	14	US-10-219-073-232	Sequence 232, App	179	10	4.5	87	17	US-10-425-115-211755	Sequence 211755, App
107	223	100.0	223	14	US-10-219-475-232	Sequence 232, App	180	10	4.5	89	16	US-10-655-799-27	Sequence 27, Appl
108	223	100.0	223	14	US-10-219-480-232	Sequence 232, App	181	10	4.5	140	17	US-10-425-115-261245	Sequence 261245, App
109	223	100.0	223	14	US-10-219-483-232	Sequence 232, App	182	10	4.5	168	16	US-10-767-701-51924	Sequence 51924, A
110	223	100.0	223	14	US-10-219-525-232	Sequence 232, App	183	10	4.5	177	15	US-10-424-599-274975	Sequence 274975, A
111	223	100.0	223	14	US-10-219-526-232	Sequence 232, App	184	10	4.5	177	16	US-10-655-799-26	Sequence 26, Appl
112	223	100.0	223	14	US-10-219-530-232	Sequence 232, App	185	10	4.5	177	16	US-10-425-115-243651	Sequence 243651, App
113	223	100.0	223	14	US-10-219-531-232	Sequence 232, App	186	10	4.5	178	16	US-10-437-963-172754	Sequence 172754, App
114	223	100.0	223	14	US-10-219-532-232	Sequence 232, App	187	10	4.5	179	15	US-10-425-114-56802	Sequence 56802, A
115	223	100.0	223	14	US-10-219-533-232	Sequence 232, App	188	10	4.5	179	15	US-10-432-531-2	Sequence 2, Appl
116	223	100.0	223	14	US-10-230-437-232	Sequence 232, App	189	10	4.5	197	16	US-10-437-963-168356	Sequence 168356, A
117	223	100.0	223	14	US-10-232-228-232	Sequence 232, App	190	10	4.5	213	15	US-10-425-114-73066	Sequence 73066, A
118	223	100.0	223	14	US-10-223-082-306	Sequence 306, App	191	10	4.5	232	16	US-10-437-963-113293	Sequence 113293, App
119	223	100.0	223	14	US-10-305-654-306	Sequence 306, App	192	10	4.5	276	17	US-10-491-733-44	Sequence 44, Appl
120	223	100.0	223	15	US-10-232-226-232	Sequence 232, App	193	10	4.5	485	16	US-10-437-963-148986	Sequence 148986, App
121	223	100.0	223	15	US-10-230-130-232	Sequence 232, App	194	9	4.0	185	16	US-10-437-963-116665	Sequence 116665, App
122	223	100.0	223	15	US-10-081-086-306	Sequence 306, App	195	8	3.6	59	16	US-10-311-174A-85	Sequence 85, Appl
123	223	100.0	223	15	US-10-219-535-232	Sequence 232, App	196	8	3.6	69	16	US-09-764-853-536	Sequence 536, App
124	223	100.0	223	15	US-10-232-230-232	Sequence 232, App	197	8	3.6	141	9	US-09-764-891-3399	Sequence 3399, App
125	223	100.0	223	15	US-10-119-480-232	Sequence 232, App	198	8	3.6	141	10	US-09-764-891-3399	Sequence 3399, App
126	223	100.0	223	17	US-10-219-477-232	Sequence 232, App	199	8	3.6	141	14	US-10-091-572-282	Sequence 282, App
127	223	100.0	223	17	US-10-884-091-61	Sequence 61, Appl	200	8	3.6	141	14	US-10-091-438-175	Sequence 175, App
128	224	96.0	227	16	US-10-403-142-228	Sequence 128, App	201	8	3.6	141	15	US-10-264-049-2668	Sequence 2668, App
129	210	94.2	227	11	US-09-978-360A-540	Sequence 540, App	202	8	3.6	147	15	US-09-815-242-10795	Sequence 10795, A
130	210	94.2	227	15	US-10-403-676-76	Sequence 76, Appl	203	8	3.6	169	9	US-10-437-963-138695	Sequence 138695, A
131	210	94.2	227	16	US-10-403-142-108	Sequence 108, App	204	8	3.6	316	15	US-10-282-122A-57056	Sequence 57056, A
132	210	94.2	227	16	US-10-403-142-130	Sequence 130, App	205	8	3.6	316	15	US-10-282-122A-60415	Sequence 60415, A
133	210	94.2	235	15	US-10-403-676-62	Sequence 62, Appl	206	8	3.6	328	15	US-10-282-122A-74524	Sequence 74524, A
134	198	88.8	206	15	US-10-403-676-65	Sequence 65, Appl	207	8	3.6	344	15	US-10-282-122A-67763	Sequence 67763, A
135	189	84.8	227	16	US-10-403-142-118	Sequence 118, App	208	8	3.6	439	14	US-10-369-493-18616	Sequence 18616, A
136	188	84.3	205	15	US-10-403-676-78	Sequence 78, Appl	209	8	3.6	521	14	US-10-369-493-17839	Sequence 17839, A
137	188	84.3	209	16	US-10-403-142-114	Sequence 114, App	210	8	3.6	693	15	US-10-108-260A-3849	Sequence 3849, App
138	188	84.3	211	15	US-10-403-676-70	Sequence 70, Appl	211	8	3.1	14	9	US-09-791-378-135	Sequence 135, App
139	175	78.9	182	15	US-10-403-676-72	Sequence 72, Appl	212	7	3.1	14	9	US-09-791-378-587	Sequence 587, App
140	175	78.5	227	16	US-10-403-142-120	Sequence 120, App	213	7	3.1	14	10	US-09-888-493-277	Sequence 277, App
141	159	71.3	227	16	US-10-403-142-126	Sequence 126, App	214	7	3.1	14	11	US-09-791-377-135	Sequence 135, App
142	124	55.6	182	14	US-10-291-265-717	Sequence 717, App	215	7	3.1	14	11	US-09-791-377-587	Sequence 587, App
143	124	55.6	206	15	US-10-403-676-64	Sequence 64, Appl	216	7	3.1	14	14	US-10-014-340-528	Sequence 528, App
144	124	55.6	223	14	US-10-291-265-245	Sequence 245, App	217	7	3.1	14	15	US-10-449-829A-32	Sequence 32, Appl
145	124	55.6	227	10	US-09-895-298-107	Sequence 107, App	218	7	3.1	14	15	US-10-601-837-154	Sequence 154, App
146	124	55.6	227	10	US-09-879-401-3	Sequence 3, Appl	219	7	3.1	14	15	US-10-601-837-154	Sequence 154, App
147	124	55.6	227	13	US-10-003-152-2	Sequence 2, Appl	220	7	3.1	22	10	US-09-766-511B-4	Sequence 4, Appl
148	124	55.6	227	14	US-10-002-050-2	Sequence 2, Appl	221	7	3.1	22	13	US-10-042-431-28	Sequence 28, Appl
149	124	55.6	227	14	US-10-002-304-2	Sequence 58, Appl	222	7	3.1	34	16	US-10-437-963-168808	Sequence 168808, App
150	124	55.6	227	15	US-10-403-676-58	Sequence 124, App	223	7	3.1	38	17	US-10-425-115-285839	Sequence 285839, A
151	124	55.6	227	16	US-10-403-142-124	Sequence 107, App	224	7	3.1	55	14	US-10-029-386-29003	Sequence 29003, A
152	124	55.6	235	15	US-10-885-039-107	Sequence 60, Appl	225	7	3.1	75	16	US-10-437-963-135738	Sequence 135738, App
153	124	55.6	235	15	US-10-403-676-60	Sequence 218, App	226	7	3.1	75	16	US-10-437-963-185403	Sequence 185403, App
154	120	53.8	149	10	US-09-895-298-218	Sequence 218, App	227	7	3.1	89	11	US-09-864-408A-4420	Sequence 4420, App
155	120	53.8	149	17	US-10-885-039-218	Sequence 218, App	228	7	3.1	99	15	US-10-767-701-31925	Sequence 31925, A
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158	102	45.7	211	15	US-10-403-676-68	Sequence 68, Appl	231	7	3.1	112	16	US-10-437-963-135491	Sequence 135491, App
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235	7	3.1	126	15	US-10-767-701-52363	Sequence 52363, A	308	7	3.1	250	10	US-09-847-513A-47	Sequence 47, Appl
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238	7	3.1	129	14	US-10-094-749-2798	Sequence 2798, Ap	311	7	3.1	263	15	US-10-425-114-50588	Sequence 50588, A
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249	7	3.1	172	14	US-10-024-298A-168	Sequence 168, App	322	7	3.1	309	15	US-10-424-599-157060	Sequence 157060, A
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253	7	3.1	172	15	US-10-617-217A-168	Sequence 168, App	326	7	3.1	313	14	US-10-282-122A-72190	Sequence 72190, A
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266	7	3.1	179	15	US-10-262-445-28	Sequence 28, Appl	339	7	3.1	387	15	US-10-282-122A-70226	Sequence 70226, A
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269	7	3.1	187	14	US-10-316-253-105	Sequence 105, App	342	7	3.1	453	14	US-10-369-493-1282	Sequence 1282, Ap
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273	7	3.1	187	15	US-10-382-970-4	Sequence 4, Appli	346	7	3.1	463	16	US-10-437-963-169016	Sequence 169016,
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277	7	3.1	187	16	US-10-384-435B-3	Sequence 3, Appli	350	7	3.1	495	9	US-09-815-242-10026	Sequence 10026, A
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281	7	3.1	209	16	US-10-437-963-121871	Sequence 121871,	354	7	3.1	540	9	US-09-213-888-10	Sequence 10, Appl
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283	7	3.1	215	14	US-10-183-687-36	Sequence 36, Appl	356	7	3.1	540	14	US-10-245-618-14	Sequence 14, Appl
284	7	3.1	215	17	US-10-425-115-253572	Sequence 253572,	357	7	3.1	540	16	US-10-653-497-7	Sequence 7, Appli
285	7	3.1	218	17	US-10-739-930-11085	Sequence 11085, A	358	7	3.1	540	16	US-10-653-497-10	Sequence 10, Appl
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287	7	3.1	220	16	US-10-384-435B-5	Sequence 5, Appli	360	7	3.1	540	16	US-10-653-517-10	Sequence 10, Appl
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289	7	3.1	233	15	US-10-363-616-282	Sequence 282, App	362	7	3.1	540	16	US-10-653-496A-10	Sequence 10, Appl
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291	7	3.1	239	16	US-10-437-963-184618	Sequence 184618,	364	7	3.1	545	9	US-09-328-877A-6	Sequence 6, Appli
292	7	3.1	249	10	US-09-847-513A-7	Sequence 7, Appli	365	7	3.1	545	16	US-10-653-497-6	Sequence 6, Appli
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294	7	3.1	250	10	US-09-847-513A-13	Sequence 13, Appl	367	7	3.1	545	16	US-10-653-496A-6	Sequence 6, Appli
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296	7	3.1	250	10	US-09-847-513A-25	Sequence 25, Appl	369	7	3.1	553	14	US-10-328-877A-5	Sequence 5, Appli
297	7	3.1	250	10	US-09-847-513A-27	Sequence 27, Appl	370	7	3.1	553	16	US-10-653-497-5	Sequence 5, Appli
298	7	3.1	250	10	US-09-847-513A-29	Sequence 29, Appl	371	7	3.1	553	16	US-10-653-517-5	Sequence 5, Appli
299	7	3.1	250	10	US-09-847-513A-31	Sequence 31, Appl	372	7	3.1	553	16	US-10-653-496A-5	Sequence 5, Appli
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301	7	3.1	250	10	US-09-847-513A-35	Sequence 35, Appl	374	7	3.1	559	16	US-10-653-497-9	Sequence 9, Appli
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303	7	3.1	250	10	US-09-847-513A-39	Sequence 39, Appl	376	7	3.1	559	16	US-10-653-496A-9	Sequence 9, Appli
304	7	3.1	250	10	US-09-847-513A-41	Sequence 41, Appl	377	7	3.1	559	16	US-10-653-496A-9	Sequence 9, Appli
305	7	3.1	250	10	US-09-847-513A-41	Sequence 41, Appl	378	7	3.1	559	16	US-10-653-496A-9	Sequence 9, Appli

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424	7	3.1	908	14	US-10-023-889-9	Sequence 9, Appli	497	6	2.7	69	9	US-09-845-849-7	Sequence 7, Appli
425	7	3.1	908	14	US-10-023-890-9	Sequence 9, Appli	498	6	2.7	69	17	US-10-425-115-217720	Sequence 217720,
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428	7	3.1	908	14	US-10-306-686-15	Sequence 15, Appli	501	6	2.7	70	15	US-10-424-599-223607	Sequence 223607,
429	7	3.1	908	17	US-10-901-216-9	Sequence 9, Appli	502	6	2.7	70	16	US-10-424-599-223607	Sequence 223607,
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431	7	3.1	990	17	US-10-425-115-362659	Sequence 362659, A	504	6	2.7	71	16	US-10-767-701-58444	Sequence 58444, A
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433	7	3.1	1392	16	US-10-437-963-148793	Sequence 148793,	506	6	2.7	73	13	US-10-016-634A-152	Sequence 152, App
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445	6	2.7	35	14	US-10-106-698-8200	Sequence 8200, App	518	6	2.7	77	11	US-09-864-408A-4450	Sequence 4450, App
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543	6	2.7	86	17	US-10-425-115-264442	Sequence 264442,	616	6	2.7	106	9	US-09-845-849-8	Sequence 8, Appli
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## ALIGNMENTS

## RESULT 1

US-09-931-836-61  
; Sequence 61, Application US/09931836  
; Publication No. US20030027249A1  
; GENERAL INFORMATION:  
; APPLICANT: Destrogers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Pan, James  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P3030R1C1  
; CURRENT APPLICATION NUMBER: US/09/931,836  
; CURRENT FILING DATE: 2001-08-16  
; PRIOR APPLICATION NUMBER: 60/085579  
; PRIOR FILING DATE: 1998-05-15  
; PRIOR APPLICATION NUMBER: 60/112514  
; PRIOR FILING DATE: 1998-12-15  
; PRIOR APPLICATION NUMBER: 60/113300  
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; PRIOR FILING DATE: 1999-01-12  
; PRIOR APPLICATION NUMBER: 60/116843  
; PRIOR FILING DATE: 1999-01-22  
; PRIOR APPLICATION NUMBER: 60/125774  
; PRIOR FILING DATE: 1999-03-23  
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; PRIOR FILING DATE: 1998-12-23  
; PRIOR APPLICATION NUMBER: 60/115552  
; PRIOR FILING DATE: 1999-01-12  
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; PRIOR FILING DATE: 1999-01-22  
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; PRIOR APPLICATION NUMBER: 60/127706  
; PRIOR FILING DATE: 1999-04-05  
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; PRIOR FILING DATE: 2000-05-22

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; PRIOR FILING DATE: 2001-06-20  
; PRIOR APPLICATION NUMBER: PCT/US01/21066  
; PRIOR FILING DATE: 2001-06-29  
; PRIOR APPLICATION NUMBER: PCT/US01/21735  
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; NUMBER OF SEQ ID NOS: 80  
; SEQ ID NO 61  
; LENGTH: 223  
; TYPE: PRT  
; ORGANISM: Homo Sapien  
US-10-036-342-61

Query Match 100.0%; Score 223; DB 13; Length 223;  
Best Local Similarity 100.0%; Pred. No. 2,4e-210;  
Matches 223; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
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Db 1 MGWTMLVTAALLGLMMVVTGDENSPCAHEALLDEDTLFCQGLEVFYFPELGNIGCKV 60  
  
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Db 181 LNRPHLGEPEASTQFMTQNYQDSPTLQAPRGRASEPKHKTRQR 223

## RESULT 3

US-10-036-041-61  
; Sequence 61, Application US/10036041  
; Publication No. US20020192751A1  
; GENERAL INFORMATION:  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Goddard, Audrey  
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; APPLICANT: Gurney, Austin L.  
; APPLICANT: Pan, James  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P3030R1C8  
; CURRENT APPLICATION NUMBER: US/10/036,041  
; CURRENT FILING DATE: 2001-12-26  
; PRIOR APPLICATION NUMBER: 60/085579  
; PRIOR FILING DATE: 1998-05-15  
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; PRIOR FILING DATE: 1998-12-15  
; PRIOR APPLICATION NUMBER: 60/113300



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CURRENT APPLICATION NUMBER: US/10/035,855  
CURRENT FILING DATE: 2001-12-26  
PRIOR APPLICATION NUMBER: 60/085579  
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PRIOR APPLICATION NUMBER: 60/125778  
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PRIOR FILING DATE: 2001-05-10  
PRIOR APPLICATION NUMBER: 09/854280  
PRIOR FILING DATE: 2001-05-10  
PRIOR APPLICATION NUMBER: 09/874503  
PRIOR FILING DATE: 2001-06-05

PRIOR APPLICATION NUMBER: 09/869599  
PRIOR FILING DATE: 2001-06-29  
PRIOR APPLICATION NUMBER: 09/908,827  
PRIOR FILING DATE: 2001-07-18  
PRIOR APPLICATION NUMBER: PCT/US99/10733  
PRIOR FILING DATE: 1999-05-14  
PRIOR APPLICATION NUMBER: PCT/US99/28551  
PRIOR FILING DATE: 1999-12-02  
PRIOR APPLICATION NUMBER: PCT/US99/30720  
PRIOR FILING DATE: 1999-12-22  
PRIOR APPLICATION NUMBER: PCT/US00/05601  
PRIOR FILING DATE: 2000-03-01  
PRIOR APPLICATION NUMBER: PCT/US00/05841  
PRIOR FILING DATE: 2000-03-02  
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PRIOR FILING DATE: 2000-12-01  
PRIOR APPLICATION NUMBER: PCT/US00/34956  
PRIOR FILING DATE: 2000-12-20  
PRIOR APPLICATION NUMBER: PCT/US01/06520  
PRIOR FILING DATE: 2001-02-28  
PRIOR APPLICATION NUMBER: PCT/US01/17800  
PRIOR FILING DATE: 2001-06-01  
PRIOR APPLICATION NUMBER: PCT/US01/19692  
PRIOR FILING DATE: 2001-06-20  
PRIOR APPLICATION NUMBER: PCT/US01/21066  
PRIOR FILING DATE: 2001-06-29  
PRIOR APPLICATION NUMBER: PCT/US01/21735  
PRIOR FILING DATE: 2001-07-09  
NUMBER OF SEQ ID NOS: 80  
SEQ ID NO 61  
LENGTH: 223  
TYPE: PRT  
ORGANISM: Homo Sapien  
US-10-035-855-61

Query Match 100.0%; Score 223; DB 14; Length 223;  
Best Local Similarity 100.0%; Pred. No. 2.4e-210;  
Matches 223; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 MGWTRLVTAALLGLMMVVTGDEDENSPCAHEALLDEDTLFCQGLEVFYPELGNIGCKV 60

Qy 61 VPDCCNNYRQKITSWMEPIVKFPGAVDGYATYILVMVDPDAPSRABPRQRFWRHLVTDIKG 120  
Db 61 VPDCCNNYRQKITSWMEPIVKFPGAVDGYATYILVMVDPDAPSRABPRQRFWRHLVTDIKG 120

Qy 121 ADLKKGIQOGELSAQAPSPAHSGFHRYPFFVYLBQSGKVISLLPKENKTRGSKWMDRF 180  
Db 121 ADLKKGIQOGELSAQAPSPAHSGFHRYPFFVYLBQSGKVISLLPKENKTRGSKWMDRF 180

Qy 181 LNRPHLGEPEASTQPMTONYQDSPTLQAPGRASEPKHKTRQR 223  
Db 181 LNRPHLGEPEASTQPMTONYQDSPTLQAPGRASEPKHKTRQR 223

RESULT 5  
US-10-227-884-232  
Sequence 232, Application US/10227884  
Publication No. US20030027988A1  
GENERAL INFORMATION:  
APPLICANT: Baker, Kevin P.  
APPLICANT: Desnoyers, Luc  
APPLICANT: Gerritsen, Mary  
APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Smith, Victoria  
APPLICANT: Stephan, Jean-Philippe F.  
APPLICANT: Watanabe, Colin L.  
APPLICANT: Wood, William I.  
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
FILE REFERENCE: P3530PIC79  
CURRENT APPLICATION NUMBER: US/10/227,884  
CURRENT FILING DATE: 2002-08-26  
PRIOR APPLICATION NUMBER: 10/119,480  
PRIOR FILING DATE: 2002-04-09  
PRIOR APPLICATION NUMBER: 60/059113  
PRIOR FILING DATE: 1997-09-17  
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;; PRIOR FILING DATE: 1999-12-07  
;; PRIOR APPLICATION NUMBER: 60/169835

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Qy 61 VPDCCNNYRQKITSWMEPIVKFPGAVDGYTILVMVDDPDAPSRAEPRQFRHHLVTDIKG 120  
Db 61 VPDCCNNYRQKITSWMEPIVKFPGAVDGYTILVMVDDPDAPSRAEPRQFRHHLVTDIKG 120  
  
Qy 121 ADLKKGKIQGQSLSAQAPSPAHSGFHYQFVVLQEGKVLSLLPKENKTRGSKWMDRF 180  
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Qy 181 LNRFLHGPSEASTQFTWNTQYQDSPTLQAPRGRASBPBKKTOR 223  
Db 181 LNRFLHGPSEASTQFTWNTQYQDSPTLQAPRGRASBPBKKTOR 223

RESULT 6  
US-10-036-214-61  
; Sequence 61, Application US/10036214  
; Publication No. US20030032061A1

;; GENERAL INFORMATION:  
;; APPLICANT: Desnoyers, Luc  
;; APPLICANT: Eaton, Dan L.  
;; APPLICANT: Goddard, Audrey  
;; APPLICANT: Godowski, Paul J.  
;; APPLICANT: Gurney, Austin L.  
;; APPLICANT: Pan, James  
;; APPLICANT: Stewart, Timothy A.  
;; APPLICANT: Watanabe, Colin K.  
;; APPLICANT: Wood, William I.  
;; APPLICANT: Zhang, Zemin  
;; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
;; FILE REFERENCE: P3030R1C11  
;; CURRENT APPLICATION NUMBER: US/10/036.214  
;; CURRENT FILING DATE: 2001-12-26  
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;; PRIOR FILING DATE: 2000-12-01  
;; PRIOR APPLICATION NUMBER: PCT/US00/34956  
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;; PRIOR APPLICATION NUMBER: PCT/US01/06520  
;; PRIOR FILING DATE: 2001-02-28  
;; PRIOR APPLICATION NUMBER: PCT/US01/17800  
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;; PRIOR FILING DATE: 2001-06-29  
;; PRIOR APPLICATION NUMBER: PCT/US01/21735  
;; PRIOR FILING DATE: 2001-07-09  
;; NUMBER OF SEQ ID NOS: 80  
;; SEQ ID NO 61  
;; LENGTH: 223  
;; TYPE: PRT  
;; ORGANISM: Homo Sapien  
US-10-036-214-61

Query Match 100.0%; Score 223; DB 14; Length 223;  
Best Local Similarity 100.0%; Pred. No. 2.4e-210;  
Matches 223; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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RESULT 7  
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;; Sequence 61, Application US/10035719  
;; Publication No. US20030036114A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Desnoyers, Luc  
;; APPLICANT: Eaton, Dan L.  
;; APPLICANT: Goddard, Audrey  
;; APPLICANT: Godowski, Paul J.  
;; APPLICANT: Gurney, Austin L.  
;; APPLICANT: Pan, James  
;; APPLICANT: Stewart, Timothy A.  
;; APPLICANT: Watanabe, Colin K.  
;; APPLICANT: Wood, William I.  
;; APPLICANT: Zhang, Zemin  
;; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
;; FILE REFERENCE: P3030PLC2  
;; CURRENT APPLICATION NUMBER: US/10/035,719  
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; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 60/146970
; PRIOR FILING DATE: 1999-08-03
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; PRIOR APPLICATION NUMBER: 09/311832
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; PRIOR APPLICATION NUMBER: 09/380142
; PRIOR FILING DATE: 1999-08-25
; PRIOR APPLICATION NUMBER: 09/644848
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; PRIOR APPLICATION NUMBER: 09/747259
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; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: PCT/US00/34956
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: PCT/US01/17800
; PRIOR FILING DATE: 2001-06-01
; PRIOR APPLICATION NUMBER: PCT/US01/19692
; PRIOR FILING DATE: 2001-06-20
; PRIOR APPLICATION NUMBER: PCT/US01/21066
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: PCT/US01/21735
; PRIOR FILING DATE: 2001-07-09
; NUMBER OF SEQ ID NOS: 80
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; LENGTH: 223
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-035-719-61
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Query Match      100.0%; Score 223; DB 14; Length 223;
Best Local Similarity 100.0%; Pred. No. 2.4e-210;
Matches 223; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy      1  MGWTRLVTAALLGLMMVVTGDENSPCAHEALLDEDTLFCQGLEVFYFELGNIGCKV 60
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Db      1  MGWTRLVTAALLGLMMVVTGDENSPCAHEALLDEDTLFCQGLEVFYFELGNIGCKV 60
        |||||||
Oy      61  VPDCCNNYRQKITSWMEPIVKFPGAVDGYATYILVMVDPDAPSAEPRQRFWRHLVTDIK 120
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Db      61  VPDCCNNYRQKITSWMEPIVKFPGAVDGYATYILVMVDPDAPSAEPRQRFWRHLVTDIK 120
        |||||||
Oy      121  ADLKKGKIQQGELSAYQAPSPAHSGFHRHYOFFVYVLOEGKVISLPLKKNKTRGSKWMDRF 180
        |||||||
Db      121  ADLKKGKIQQGELSAYQAPSPAHSGFHRHYOFFVYVLOEGKVISLPLKKNKTRGSKWMDRF 180
        |||||||
Oy      181  LNRPHLGEPEASTQFMTQNYQDSPTLQAPGRASEPKHKTRQR 223
        |||||||
Db      181  LNRPHLGEPEASTQFMTQNYQDSPTLQAPGRASEPKHKTRQR 223
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## RESULT 8

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US-10-230-163-232
; Sequence 232, Application US/10230163
; Publication No. US20030036635A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Desnoyers, Luc
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe P.
; APPLICANT: Watanabe, Colin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3530FIC96
; CURRENT APPLICATION NUMBER: US/10/230.163
; CURRENT FILING DATE: 2002-08-28
; PRIOR APPLICATION NUMBER: 10/119,480
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/062287
; PRIOR FILING DATE: 1997-10-17
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; PRIOR APPLICATION NUMBER: 60/064103
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; PRIOR APPLICATION NUMBER: 60/069873
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079294
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;; PRIOR APPLICATION NUMBER: 60/090472  
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;; PRIOR APPLICATION NUMBER: 60/106905  
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;; PRIOR FILING DATE: 1999-12-07  
;; PRIOR APPLICATION NUMBER: 60/169835

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Best Local Similarity 100.0%; Pred. No. 2,4e-210;  
Matches 223; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 61 VPDCCNYRQKITSWMEPIVKFPGAVDGTATYLLVMVDDPAPSAEPRQRFWRHVLVTDIKG 120  
QY 121 ADLKGKIQGQELSAYQAPSPHAFSGFHRYPFVYLQEGKVISLLPKENKTRGSKWMDRF 180  
Db 121 ADLKGKIQGQELSAYQAPSPHAFSGFHRYPFVYLQEGKVISLLPKENKTRGSKWMDRF 180  
QY 181 LNRPHLGEPEASTQPMTONYQDSPTLOAPGRGASEPKIKTROR 223  
Db 181 LNRPHLGEPEASTQPMTONYQDSPTLOAPGRGASEPKIKTROR 223

## RESULT 9

US-10-036-160-61  
; Sequence 61, Application US/10036160  
; Publication No. US2003004842A1  
; GENERAL INFORMATION:  
; APPLICANT: Desnovers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Pan, James  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P3030R1C3  
; CURRENT APPLICATION NUMBER: US/10/036,160  
; CURRENT FILING DATE: 2001-12-26  
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; PRIOR APPLICATION NUMBER: 60/132371  
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; PRIOR APPLICATION NUMBER: 09/869599  
; PRIOR FILING DATE: 2001-06-29  
; PRIOR APPLICATION NUMBER: 09/908,827  
; PRIOR FILING DATE: 2001-07-18  
; PRIOR APPLICATION NUMBER: PCT/US99/10733  
; PRIOR FILING DATE: 1999-05-14  
; PRIOR APPLICATION NUMBER: PCT/US99/28551  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/30720  
; PRIOR FILING DATE: 1999-12-22  
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; PRIOR FILING DATE: 2000-03-02  
; PRIOR APPLICATION NUMBER: PCT/US00/14042  
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; PRIOR APPLICATION NUMBER: PCT/US00/23522  
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; PRIOR APPLICATION NUMBER: PCT/US01/17800  
; PRIOR FILING DATE: 2001-06-01  
; PRIOR APPLICATION NUMBER: PCT/US01/19692  
; PRIOR FILING DATE: 2001-06-20  
; PRIOR APPLICATION NUMBER: PCT/US01/21066  
; PRIOR FILING DATE: 2001-06-29  
; PRIOR APPLICATION NUMBER: PCT/US01/21735  
; PRIOR FILING DATE: 2001-07-09  
; NUMBER OF SEQ ID NOS: 80  
; SEQ ID NO 61  
; LENGTH: 223

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; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-036-160-61

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Best Local Similarity 100.0%; Pred. No. 2.4e-210;
Matches 223; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGWTLRLVTAALLGLMMVVTGDEENSPCAHEALLDEDTLFCQGLEVFYPYELGNIGCKV 60
DB 1 MGWTLRLVTAALLGLMMVVTGDEENSPCAHEALLDEDTLFCQGLEVFYPYELGNIGCKV 60

QY 61 VPDNNYRQKITSWMEPIVKFPGAVDGYIILVMVDPDAPSRAPRQRFWRHLVTDIKG 120
DB 61 VPDNNYRQKITSWMEPIVKFPGAVDGYIILVMVDPDAPSRAPRQRFWRHLVTDIKG 120

QY 121 ADLKGKIQOGLSAYQAPSPAHSGFHRHYQFFVYLQEGKVISLLPKENKTRGSKWMDRF 180
DB 121 ADLKGKIQOGLSAYQAPSPAHSGFHRHYQFFVYLQEGKVISLLPKENKTRGSKWMDRF 180

QY 181 LNRFLHGEPEASTQFMNTQYQDSPTLQAPRGRASEPKHKTRQ 223
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RESULT 10
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; Sequence 232, Application US/10230338
; Publication No. US20030044934A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Desnoyers, Luc
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Watanabe, Colin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3530PIC92
; CURRENT APPLICATION NUMBER: US/10/230,338
; CURRENT FILING DATE: 2002-08-28
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 60/059113
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; PRIOR APPLICATION NUMBER: 60/069873
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/078910
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; PRIOR APPLICATION NUMBER: 60/079294
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; PRIOR APPLICATION NUMBER: 60/079656
; PRIOR FILING DATE: 1998-03-26
; PRIOR APPLICATION NUMBER: 60/079728
; PRIOR FILING DATE: 1998-03-27
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 246
; SEQ ID NO 232
; LENGTH: 223
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-230-338-232
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Query Match      100.0%; Score 223; DB 14; Length 223;
Best Local Similarity 100.0%; Pred. No. 2.4e-210;
Matches 223; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGWTLRLVTAALLGLMMVVTGDEENSPCAHEALLDEDTLFCQGLEVFYPYELGNIGCKV 60
DB 1 MGWTLRLVTAALLGLMMVVTGDEENSPCAHEALLDEDTLFCQGLEVFYPYELGNIGCKV 60

QY 61 VPDNNYRQKITSWMEPIVKFPGAVDGYIILVMVDPDAPSRAPRQRFWRHLVTDIKG 120
DB 61 VPDNNYRQKITSWMEPIVKFPGAVDGYIILVMVDPDAPSRAPRQRFWRHLVTDIKG 120

QY 121 ADLKGKIQOGLSAYQAPSPAHSGFHRHYQFFVYLQEGKVISLLPKENKTRGSKWMDRF 180
DB 121 ADLKGKIQOGLSAYQAPSPAHSGFHRHYQFFVYLQEGKVISLLPKENKTRGSKWMDRF 180

QY 181 LNRFLHGEPEASTQFMNTQYQDSPTLQAPRGRASEPKHKTRQ 223
DB 181 LNRFLHGEPEASTQFMNTQYQDSPTLQAPRGRASEPKHKTRQ 223
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RESULT 11
US-10-218-631-232
; Sequence 232, Application US/10218631
; Publication No. US20030045687A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Desnoyers, Luc
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Watanabe, Colin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3530PIC14
; CURRENT APPLICATION NUMBER: US/10/218,631
; CURRENT FILING DATE: 2002-08-12
; PRIOR FILING DATE: 10/119,480
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/062287
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063549
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/064103
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/069873
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079294
; PRIOR FILING DATE: 1998-03-25
; PRIOR APPLICATION NUMBER: 60/079656
; PRIOR FILING DATE: 1998-03-26
; PRIOR APPLICATION NUMBER: 60/079728
; PRIOR FILING DATE: 1998-03-27
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 246
; SEQ ID NO 232
; LENGTH: 223
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-218-631-232

Query Match      100.0%; Score 223; DB 14; Length 223;
Best Local Similarity 100.0%; Pred. No. 2.4e-210;
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	Matches	223;	Conservative	0;	Mismatches	0;	Indels	0;	Gaps	0;
Qy	1	MGWTMRLVTAALLGLMMVVTGDE	DENSPCAHEALLDEDTLFCQGLEVFY	PELGNIGKV	60					
Db	1	MGWTMRLVTAALLGLMMVVTGDE	DENSPCAHEALLDEDTLFCQGLEVFY	PELGNIGKV	60					
Qy	61	VPDCNNYRKQKITSWMEPIVKEPGAV	DGNTYTLVMVDDPAPSRAPRQRFWEHL	VTDIKG	120					
Db	61	VPDCNNYRKQKITSWMEPIVKEPGAV	DGNTYTLVMVDDPAPSRAPRQRFWEHL	VTDIKG	120					
Qy	121	ADLKKGIQOELSAYQAPSPAHSGFHRYQ	FFVYLOEGKVISILLPKENKTRGSGWMDRF	180						
Db	121	ADLKKGIQOELSAYQAPSPAHSGFHRYQ	FFVYLOEGKVISILLPKENKTRGSGWMDRF	180						
Qy	181	LNRFHLGEPASTQFMFTQNYODSPTLQAP	GRASEPKHKTRQ	223						
Db	181	LNRFHLGEPASTQFMFTQNYODSPTLQAP	GRASEPKHKTRQ	223						

## RESULT 12

US-10-035-958-61

Sequence 61, Application US/10035958  
Publication No. US20030049733A1

GENERAL INFORMATION:

APPLICANT: Desnoyers, Luc  
APPLICANT: Baton, Dan L.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Gurney, Austin L.  
APPLICANT: Pan, James  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
ACIDS ENCODING THE SAME

FILE REFERENCE: P3030R1C7

CURRENT APPLICATION NUMBER: US/10/035,958

CURRENT FILING DATE: 2001-12-26

PRIOR APPLICATION NUMBER: 60/085579  
PRIOR FILING DATE: 1998-05-15  
PRIOR APPLICATION NUMBER: 60/112514  
PRIOR FILING DATE: 1998-12-15  
PRIOR APPLICATION NUMBER: 60/113300  
PRIOR FILING DATE: 1998-12-22  
PRIOR APPLICATION NUMBER: 60/113430  
PRIOR FILING DATE: 1998-12-23  
PRIOR APPLICATION NUMBER: 60/113605  
PRIOR FILING DATE: 1998-12-23  
PRIOR APPLICATION NUMBER: 60/113621  
PRIOR FILING DATE: 1998-12-23  
PRIOR APPLICATION NUMBER: 60/114140  
PRIOR FILING DATE: 1998-12-23  
PRIOR APPLICATION NUMBER: 60/115552  
PRIOR FILING DATE: 1999-01-12  
PRIOR APPLICATION NUMBER: 60/116843  
PRIOR FILING DATE: 1999-01-22  
PRIOR APPLICATION NUMBER: 60/125774  
PRIOR FILING DATE: 1999-03-23  
PRIOR APPLICATION NUMBER: 60/125778  
PRIOR FILING DATE: 1999-03-23  
PRIOR APPLICATION NUMBER: 60/125826  
PRIOR FILING DATE: 1999-03-24  
PRIOR APPLICATION NUMBER: 60/127035  
PRIOR FILING DATE: 1999-03-31  
PRIOR APPLICATION NUMBER: 60/127706  
PRIOR FILING DATE: 1999-04-05  
PRIOR APPLICATION NUMBER: 60/129122  
PRIOR FILING DATE: 1999-04-13  
PRIOR APPLICATION NUMBER: 60/130359  
PRIOR FILING DATE: 1999-04-21  
PRIOR APPLICATION NUMBER: 60/131270  
PRIOR FILING DATE: 1999-04-27

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; SEQ ID NO 61
; LENGTH: 223
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-035-958-61

Query Match      100.0%; Score 223; DB 14; Length 223;
Best Local Similarity 100.0%; Pred. No. 2,4e-210;
Matches 223; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGMTMLRVTAALLGLMMVVTGDEDENSPCAHEALLDEDTLFCQGLEVFYPYELGNIGCKV 60
Db 1 MGMTMLRVTAALLGLMMVVTGDEDENSPCAHEALLDEDTLFCQGLEVFYPYELGNIGCKV 60

QY 61 VPCNNYRKITSWMEPIVKFPGAVDGTATVLMVDPDAPSRAEPQRWRHVLVTDIKG 120
Db 61 VPCNNYRKITSWMEPIVKFPGAVDGTATVLMVDPDAPSRAEPQRWRHVLVTDIKG 120

QY 121 ADLKKGKIQQEELSAQAPSPPAHSGFHRYQFFVYLQEGKVISLLPKENKTRGSKWMDRF 180
Db 121 ADLKKGKIQQEELSAQAPSPPAHSGFHRYQFFVYLQEGKVISLLPKENKTRGSKWMDRF 180

QY 181 LNRPHLGEPEASTQFTQNTQYQDSPTLQAPRGRASEPKHKTRQ 223
Db 181 LNRPHLGEPEASTQFTQNTQYQDSPTLQAPRGRASEPKHKTRQ 223

RESULT 13
US-10-036-150-61
; Sequence 61, Application US/10036150
; Publication No. US20030049734A1
; GENERAL INFORMATION:
; APPLICANT: Deenoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P30301C9
; CURRENT APPLICATION NUMBER: US/10/036,150
; CURRENT FILING DATE: 2001-12-26
; PRIOR APPLICATION NUMBER: 60/085579
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/112514
; PRIOR FILING DATE: 1998-12-15
; PRIOR APPLICATION NUMBER: 60/113300
; PRIOR FILING DATE: 1998-12-22
; PRIOR APPLICATION NUMBER: 60/113430
; PRIOR FILING DATE: 1998-12-23
; PRIOR APPLICATION NUMBER: 60/113605
; PRIOR FILING DATE: 1998-12-23
; PRIOR APPLICATION NUMBER: 60/113621
; PRIOR FILING DATE: 1998-12-23
; PRIOR APPLICATION NUMBER: 60/114140
; PRIOR FILING DATE: 1998-12-23
; PRIOR APPLICATION NUMBER: 60/115552
; PRIOR FILING DATE: 1998-01-12
; PRIOR APPLICATION NUMBER: 60/116843
; PRIOR FILING DATE: 1999-01-22
; PRIOR APPLICATION NUMBER: 60/125774
; PRIOR FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: 60/125778
; PRIOR FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: 60/125826
; PRIOR FILING DATE: 1999-03-24
; PRIOR APPLICATION NUMBER: 60/127035
; PRIOR FILING DATE: 1999-03-31
; PRIOR APPLICATION NUMBER: 60/127706
; PRIOR FILING DATE: 1999-04-05
; PRIOR APPLICATION NUMBER: 60/129122
; PRIOR FILING DATE: 1999-04-13
; PRIOR APPLICATION NUMBER: 60/130359
; PRIOR FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: 60/131270
; PRIOR FILING DATE: 1999-04-27
; PRIOR APPLICATION NUMBER: 60/131272
; PRIOR FILING DATE: 1999-04-27
; PRIOR APPLICATION NUMBER: 60/131291
; PRIOR FILING DATE: 1999-04-27
; PRIOR APPLICATION NUMBER: 60/132371
; PRIOR FILING DATE: 1999-05-04
; PRIOR APPLICATION NUMBER: 60/132379
; PRIOR FILING DATE: 1999-05-04
; PRIOR APPLICATION NUMBER: 60/132383
; PRIOR FILING DATE: 1999-05-04
; PRIOR APPLICATION NUMBER: 60/135750
; PRIOR FILING DATE: 1999-05-25
; PRIOR APPLICATION NUMBER: 60/138166
; PRIOR FILING DATE: 1999-06-08
; PRIOR APPLICATION NUMBER: 60/144791
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 60/146970
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: 60/162506
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: 09/311832
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: 09/380142
; PRIOR FILING DATE: 1999-08-25
; PRIOR APPLICATION NUMBER: 09/644848
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: 09/747259
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: 09/816744
; PRIOR FILING DATE: 2001-03-22
; PRIOR APPLICATION NUMBER: 09/854208
; PRIOR FILING DATE: 2001-05-10
; PRIOR APPLICATION NUMBER: 09/854280
; PRIOR FILING DATE: 2001-05-10
; PRIOR APPLICATION NUMBER: 09/874503
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: 09/869599
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 09/908,827
; PRIOR FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: PCT/US99/10733
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: PCT/US99/28551
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30720
; PRIOR FILING DATE: 1999-12-22
; PRIOR APPLICATION NUMBER: PCT/US00/05601
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: 2000-03-02
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: 2000-05-22
; PRIOR APPLICATION NUMBER: PCT/US00/15264
; PRIOR FILING DATE: 2000-06-02
; PRIOR APPLICATION NUMBER: PCT/US00/23522
; PRIOR FILING DATE: 2000-08-23
; PRIOR APPLICATION NUMBER: PCT/US00/23328
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: PCT/US00/34956
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: PCT/US01/17800
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;; PRIOR FILING DATE: 2001-06-01  
;; PRIOR APPLICATION NUMBER: PCT/US01/19692  
;; PRIOR FILING DATE: 2001-06-20  
;; PRIOR APPLICATION NUMBER: PCT/US01/21066  
;; PRIOR FILING DATE: 2001-06-29  
;; PRIOR APPLICATION NUMBER: PCT/US01/21735  
;; PRIOR FILING DATE: 2001-07-09  
;; NUMBER OF SEQ ID NOS: 80  
; SEQ ID NO 61  
; LENGTH: 223  
; TYPE: PRT  
; ORGANISM: Homo Sapien  
US-10-036-150-61

Query Match 100.0%; Score 223; DB 14; Length 223;  
Best Local Similarity 100.0%; Pred. No. 2.4e-210;  
Matches 223; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1 MGWTRLVTAALLGLMMVVTGDEENSPCAHEALLDEDTLFCQGLEVFYPYELGNIGCKV 60  
DB 1 MGWTRLVTAALLGLMMVVTGDEENSPCAHEALLDEDTLFCQGLEVFYPYELGNIGCKV 60  
  
QY 61 VPDCCNNYRQKITSWMEPIVKFPGAVDGYIILVMVDPDAPSRAPRQRFWRHVLVTDIKG 120  
DB 61 VPDCCNNYRQKITSWMEPIVKFPGAVDGYIILVMVDPDAPSRAPRQRFWRHVLVTDIKG 120  
  
QY 121 ADLKGKIQGQELSAYQAPSPPAHSGFHRYQFFVYLQEGKVISLLPKENKTRGSKWMDRF 180  
DB 121 ADLKGKIQGQELSAYQAPSPPAHSGFHRYQFFVYLQEGKVISLLPKENKTRGSKWMDRF 180  
  
QY 181 LNRFLHGEPEASTQFMNTQYQDSPTLQAPRGRASEPKHKTRQ 223  
DB 181 LNRFLHGEPEASTQFMNTQYQDSPTLQAPRGRASEPKHKTRQ 223

## RESULT 14

US-10-230-414-232  
; Sequence 232, Application US/10230414  
; Publication No. US2003050448A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Smith, Victoria  
; APPLICANT: Stephan, Jean-Philippe F.  
; APPLICANT: Watanabe, Colin L.  
; APPLICANT: Wood, William I.  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P3530P1C11  
; CURRENT APPLICATION NUMBER: US/10/230,414  
; CURRENT FILING DATE: 2002-08-28  
; PRIOR APPLICATION NUMBER: 10/119,480  
; PRIOR FILING DATE: 2002-04-09  
; PRIOR APPLICATION NUMBER: 60/059113  
; PRIOR FILING DATE: 1997-09-17  
; PRIOR APPLICATION NUMBER: 60/062287  
; PRIOR FILING DATE: 1997-10-17  
; PRIOR APPLICATION NUMBER: 60/063549  
; PRIOR FILING DATE: 1997-10-17  
; PRIOR APPLICATION NUMBER: 60/064103  
; PRIOR FILING DATE: 1997-10-28  
; PRIOR APPLICATION NUMBER: 60/069873  
; PRIOR FILING DATE: 1997-12-17  
; PRIOR APPLICATION NUMBER: 60/078910  
; PRIOR FILING DATE: 1998-03-20  
; PRIOR APPLICATION NUMBER: 60/079294  
; PRIOR FILING DATE: 1998-03-25  
; PRIOR APPLICATION NUMBER: 60/079656  
; PRIOR FILING DATE: 1998-03-25  
; PRIOR APPLICATION NUMBER: 60/079656

;; PRIOR FILING DATE: 1998-03-26  
;; PRIOR APPLICATION NUMBER: 60/079728  
;; PRIOR FILING DATE: 1998-03-27  
;; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 246  
; SEQ ID NO 232  
; LENGTH: 223  
; TYPE: PRT  
; ORGANISM: Homo Sapien  
US-10-230-414-232

Query Match 100.0%; Score 223; DB 14; Length 223;  
Best Local Similarity 100.0%; Pred. No. 2.4e-210;  
Matches 223; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1 MGWTRLVTAALLGLMMVVTGDEENSPCAHEALLDEDTLFCQGLEVFYPYELGNIGCKV 60  
DB 1 MGWTRLVTAALLGLMMVVTGDEENSPCAHEALLDEDTLFCQGLEVFYPYELGNIGCKV 60  
  
QY 61 VPDCCNNYRQKITSWMEPIVKFPGAVDGYIILVMVDPDAPSRAPRQRFWRHVLVTDIKG 120  
DB 61 VPDCCNNYRQKITSWMEPIVKFPGAVDGYIILVMVDPDAPSRAPRQRFWRHVLVTDIKG 120  
  
QY 121 ADLKGKIQGQELSAYQAPSPPAHSGFHRYQFFVYLQEGKVISLLPKENKTRGSKWMDRF 180  
DB 121 ADLKGKIQGQELSAYQAPSPPAHSGFHRYQFFVYLQEGKVISLLPKENKTRGSKWMDRF 180  
  
QY 181 LNRFLHGEPEASTQFMNTQYQDSPTLQAPRGRASEPKHKTRQ 223  
DB 181 LNRFLHGEPEASTQFMNTQYQDSPTLQAPRGRASEPKHKTRQ 223

## RESULT 15

US-10-232-224-232  
; Sequence 232, Application US/10232224  
; Publication No. US20030065147A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Smith, Victoria  
; APPLICANT: Stephan, Jean-Philippe F.  
; APPLICANT: Watanabe, Colin L.  
; APPLICANT: Wood, William I.  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P3530P1C11  
; CURRENT APPLICATION NUMBER: US/10/232,224  
; CURRENT FILING DATE: 2002-08-29  
; PRIOR APPLICATION NUMBER: 10/119,480  
; PRIOR FILING DATE: 2002-04-09  
; PRIOR APPLICATION NUMBER: 60/059113  
; PRIOR FILING DATE: 1997-09-17  
; PRIOR APPLICATION NUMBER: 60/062287  
; PRIOR FILING DATE: 1997-10-17  
; PRIOR APPLICATION NUMBER: 60/063549  
; PRIOR FILING DATE: 1997-10-28  
; PRIOR APPLICATION NUMBER: 60/064103  
; PRIOR FILING DATE: 1997-10-31  
; PRIOR APPLICATION NUMBER: 60/069873  
; PRIOR FILING DATE: 1997-12-17  
; PRIOR APPLICATION NUMBER: 60/078910  
; PRIOR FILING DATE: 1998-03-20  
; PRIOR APPLICATION NUMBER: 60/079294  
; PRIOR FILING DATE: 1998-03-25  
; PRIOR APPLICATION NUMBER: 60/079656  
; PRIOR FILING DATE: 1998-03-26  
; PRIOR APPLICATION NUMBER: 60/079728  
; PRIOR FILING DATE: 1998-03-27

; Remaining Prior Application data removed - See File Wrapper or PALM.

; NUMBER OF SEQ ID NOS: 246

; SEQ ID NO 232

; LENGTH: 223

; TYPE: PRT

; ORGANISM: Homo Sapien

US-10-232-224-232

Query Match 100.0%; Score 223; DB 14; Length 223;  
Best Local Similarity 100.0%; Pred. No. 2.4e-210; Mismatches 0; Indels 0; Gaps 0;  
Matches 223; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MGTWRLVTAALLGLMMVVTGDENSPCAEALLDEDTLFCQGLEVFYPPELGNIGCKV 60  
DB 1 MGTWRLVTAALLGLMMVVTGDENSPCAEALLDEDTLFCQGLEVFYPPELGNIGCKV 60  
QY 61 VPDCCNNYRQKITSWMEPIVKFPGAVDGYTILVMVDPDAPSRAEPRQRFWRHVLVTDIKG 120  
DB 61 VPDCCNNYRQKITSWMEPIVKFPGAVDGYTILVMVDPDAPSRAEPRQRFWRHVLVTDIKG 120  
QY 121 ADLKKGKIQQBELSAYQAPSPPAHSGFHRYPFVYLQEGKVISLLPKENKTRGSKWMDRF 180  
DB 121 ADLKKGKIQQBELSAYQAPSPPAHSGFHRYPFVYLQEGKVISLLPKENKTRGSKWMDRF 180  
QY 181 LNRFHLLGEPEASTQFMTQNYQDSPTLQAPRGASEPKHKTRQ 223  
DB 181 LNRFHLLGEPEASTQFMTQNYQDSPTLQAPRGASEPKHKTRQ 223

Search completed: January 31, 2005, 15:17:31  
Job time : 92 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: January 31, 2005, 15:11:04 ; Search time 22 Seconds

(without alignments)  
672.223 Million cell updates/sec

Title: US-10-035-958-61

Perfect score: 223

Sequence: 1 MGWTRLVTAALLGLMMVV.....PTLQAPRGASEPKHKTKR 223

Scoring table:

OLIGO

Gapop 60.0 , Gapext 60.0

Searched: 478139 seqs, 66318000 residues

Word size : 6

Total number of hits satisfying chosen parameters: 626

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 1500 summaries

Database :

1: /cgn2\_6/prodata/1/1aa/5A-COMB.pep:\*\*  
2: /cgn2\_6/prodata/1/1aa/5B-COMB.pep:\*\*  
3: /cgn2\_6/prodata/1/1aa/6A-COMB.pep:\*\*  
4: /cgn2\_6/prodata/1/1aa/6B-COMB.pep:\*\*  
5: /cgn2\_6/prodata/1/1aa/PCTUS-COMB.pep:\*\*  
6: /cgn2\_6/prodata/1/1aa/backfiles1.pep:\*\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	210	94.2	227	4	US-09-621-976-8
2	210	94.2	227	4	US-09-513-999C-8
3	124	55.6	227	3	US-09-208-718-3
4	8	3.6	116	4	US-09-248-796A-21372
5	8	3.6	137	2	US-08-974-546-3
6	8	3.6	143	4	US-09-621-976-7099
7	8	3.6	190	4	US-09-134-000C-4833
8	7	3.1	15	1	US-08-403-378B-7
9	7	3.1	22	4	US-09-578-063-28
10	7	3.1	110	4	US-09-252-991A-25566
11	7	3.1	115	4	US-09-252-991A-29066
12	7	3.1	135	4	US-10-101-464A-618
13	7	3.1	141	4	US-09-270-767-43926
14	7	3.1	152	1	US-07-644-372-2
15	7	3.1	152	3	US-09-208-718-6
16	7	3.1	154	4	US-09-397-787-16
17	7	3.1	169	4	US-09-252-991A-24989
18	7	3.1	172	4	US-09-578-063-27
19	7	3.1	172	4	US-09-578-063-74
20	7	3.1	175	3	US-09-060-726A-2
21	7	3.1	175	4	US-09-845-849A-2
22	7	3.1	183	4	US-09-107-532A-5511
23	7	3.1	186	4	US-09-492-308A-8
24	7	3.1	187	1	US-08-403-378B-4
25	7	3.1	187	1	US-08-403-378B-15
26	7	3.1	187	4	US-09-492-308A-7
27	7	3.1	240	4	US-09-107-532A-6221

28	7	3.1	252	4	US-09-522-714-20	Sequence 20, Appl
29	7	3.1	333	4	US-10-101-464A-561	Sequence 561, Appl
30	7	3.1	375	1	US-08-027-986-1	Sequence 1, Appl
31	7	3.1	375	1	US-08-027-986-2	Sequence 2, Appl
32	7	3.1	458	4	US-09-252-991A-27645	Sequence 27645, A
33	7	3.1	463	4	US-09-248-796A-25246	Sequence 25246, A
34	7	3.1	495	3	US-08-984-618-5	Sequence 5, Appl
35	7	3.1	540	4	US-09-213-888-7	Sequence 7, Appl
36	7	3.1	540	4	US-09-213-888-10	Sequence 10, Appl
37	7	3.1	540	4	US-09-328-877D-7	Sequence 7, Appl
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39	7	3.1	541	4	US-09-134-000C-5420	Sequence 5420, Ap
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44	7	3.1	559	4	US-09-213-888-9	Sequence 9, Appl
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47	7	3.1	589	4	US-09-328-877D-8	Sequence 8, Appl
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51	7	3.1	626	4	US-09-536-784-220	Sequence 220, App
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59	7	3.1	669	4	US-09-213-888-25	Sequence 25, Appl
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62	7	3.1	803	4	US-09-489-039A-12742	Sequence 12742, A
63	7	3.1	908	4	US-09-635-872A-15	Sequence 15, Appl
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65	7	3.1	908	4	US-09-636-060C-15	Sequence 15, Appl
66	7	3.1	908	4	US-09-986-552-15	Sequence 15, Appl
67	7	3.1	908	4	US-09-636-596C-15	Sequence 15, Appl
68	7	3.1	974	4	US-10-101-464A-921	Sequence 921, App
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74	6	2.7	37	4	US-09-732-210-995	Sequence 995, App
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76	6	2.7	38	3	US-09-188-039-5	Sequence 5, Appl
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78	6	2.7	59	4	US-09-384-302A-16	Sequence 16, Appl
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88	6	2.7	85	3	US-08-912-314A-22	Sequence 22, Appl
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105	6	2.7	116	4	US-09-252-991A-18867	Sequence 28667, A	178	6	2.7	226	4	US-09-107-532A-3715	Sequence 3715, Ap
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107	6	2.7	118	3	US-09-056-556-231	Sequence 231, App	180	6	2.7	231	4	US-09-252-991A-32190	Sequence 32190, A
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110	6	2.7	122	1	US-08-497-025-5	Sequence 5, Appli	183	6	2.7	233	4	US-09-328-352-4128	Sequence 4128, Ap
111	6	2.7	122	2	US-08-232-087A-7	Sequence 7, Appli	184	6	2.7	237	4	US-09-543-681A-7316	Sequence 7316, Ap
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113	6	2.7	123	4	US-09-543-681A-6414	Sequence 6414, Ap	186	6	2.7	243	2	US-07-885-089B-4	Sequence 4, Appli
114	6	2.7	127	4	US-09-252-991A-28397	Sequence 28397, A	187	6	2.7	243	2	US-07-885-089B-9	Sequence 9, Appli
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117	6	2.7	136	4	US-09-732-210-1131	Sequence 1131, Ap	190	6	2.7	245	4	US-09-543-681A-6206	Sequence 6206, Ap
118	6	2.7	138	4	US-09-252-991A-22498	Sequence 22498, A	191	6	2.7	245	4	US-09-489-039A-14090	Sequence 14090, A
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132	6	2.7	154	4	US-09-679-426-383	Sequence 383, App	205	6	2.7	264	3	US-08-894-731-4	Sequence 4, Appli
133	6	2.7	160	3	US-09-134-001C-4327	Sequence 4327, Ap	206	6	2.7	264	4	US-09-270-767-44345	Sequence 44345, A
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135	6	2.7	160	4	US-09-275-252A-1	Sequence 1, Appli	208	6	2.7	266	4	US-09-540-236-3698	Sequence 3698, Ap
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139	6	2.7	161	4	US-09-679-426-846	Sequence 846, App	212	6	2.7	268	4	US-09-270-767-47717	Sequence 47717, A
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142	6	2.7	164	1	US-08-374-983A-8	Sequence 8, Appli	215	6	2.7	273	4	US-09-091-097-12	Sequence 12, Appl
143	6	2.7	166	4	US-08-529-055-48	Sequence 48, Appl	216	6	2.7	274	4	US-09-489-039A-7343	Sequence 7343, Ap
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148	6	2.7	181	4	US-09-252-991A-21966	Sequence 21966, A	221	6	2.7	289	3	US-08-942-012B-4	Sequence 4, Appli
149	6	2.7	181	4	US-09-538-092-792	Sequence 792, App	222	6	2.7	291	1	US-07-593-657-5	Sequence 5, Appli
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157	6	2.7	201	4	US-09-270-767-35973	Sequence 35973, A	230	6	2.7	296	5	PCT-US95-07752-2	Sequence 2, Appli
158	6	2.7	201	4	US-09-270-767-51190	Sequence 51190, A	231	6	2.7	298	4	US-09-252-991A-28705	Sequence 28705, A
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163	6	2.7	206	4	US-09-107-532A-5875	Sequence 5875, Ap	236	6	2.7	310	4	US-09-583-110-2987	Sequence 2987, Ap
164	6	2.7	206	4	US-10-101-464A-749	Sequence 749, App	237	6	2.7	311	4	US-09-489-039A-9550	Sequence 9550, Ap
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166	6	2.7	208	4	US-10-140-002-510	Sequence 510, App	239	6	2.7	316	4	US-09-540-236-3467	Sequence 3467, Ap
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173	6	2.7	223	3	US-09-206-676C-1	Sequence 1, Appli	246	6	2.7	321	3	US-09-343-986-2	Sequence 2, Appli

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259	6	2.7	337	4	US-09-828-447-15	Sequence 15, Appli	332	6	2.7	415	4	US-09-191-724-13	Sequence 13, Appli
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262	6	2.7	349	2	US-08-483-926A-12	Sequence 12, Appli	335	6	2.7	415	4	US-09-799-978-16	Sequence 16, Appli
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264	6	2.7	350	4	US-09-538-092-174	Sequence 174, App	337	6	2.7	415	4	US-08-799-978-28	Sequence 28, Appli
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```
539 6 2.7 928 4 US-09-986-552-1 Sequence 1, Appli
540 6 2.7 928 4 US-09-636-596C-1 Sequence 1, Appli
541 6 2.7 953 4 US-09-252-991A-27230 Sequence 27230, A
542 6 2.7 956 4 US-09-252-991A-17124 Sequence 17124, A
543 6 2.7 963 4 US-09-394-272-12 Sequence 12, Appli
544 6 2.7 963 4 US-09-394-272-13 Sequence 13, Appli
545 6 2.7 974 4 US-09-883-134-7 Sequence 7, Appli
546 6 2.7 975 4 US-09-540-236-2304 Sequence 2304, Ap
547 6 2.7 979 3 US-08-788-474-5 Sequence 5, Appli
548 6 2.7 982 4 US-09-252-991A-24820 Sequence 24820, A
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550 6 2.7 984 2 US-08-449-645A-19 Sequence 19, Appli
551 6 2.7 984 2 US-08-702-367A-19 Sequence 19, Appli
552 6 2.7 984 5 PCT-US95-04681-19 Sequence 19, Appli
553 6 2.7 992 1 US-08-127-499A-1 Sequence 1, Appli
554 6 2.7 992 1 US-08-482-847-1 Sequence 1, Appli
555 6 2.7 1009 4 US-09-762-724-10 Sequence 10, Appli
556 6 2.7 1014 4 US-09-252-991A-17583 Sequence 17583, A
557 6 2.7 1021 1 US-08-497-025-3 Sequence 3, Appli
558 6 2.7 1024 4 US-09-562-737-46 Sequence 46, Appli
559 6 2.7 1024 4 US-09-562-737-50 Sequence 50, Appli
560 6 2.7 1029 4 US-09-762-724-6 Sequence 6, Appli
561 6 2.7 1050 3 US-09-428-711A-16 Sequence 16, Appli
562 6 2.7 1053 4 US-09-252-991A-19145 Sequence 19145, A
563 6 2.7 1063 1 US-08-093-453B-3 Sequence 3, Appli
564 6 2.7 1063 1 US-08-127-499A-8 Sequence 8, Appli
565 6 2.7 1063 1 US-08-482-847-8 Sequence 8, Appli
566 6 2.7 1086 4 US-09-252-991A-25051 Sequence 25051, A
567 6 2.7 1105 4 US-09-540-236-3299 Sequence 3299, Ap
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571 6 2.7 1212 3 US-09-090-535-4 Sequence 4, Appli
572 6 2.7 1212 3 US-09-268-866-2 Sequence 2, Appli
573 6 2.7 1212 3 US-09-435-945-3 Sequence 3, Appli
574 6 2.7 1214 4 US-10-164-595-24 Sequence 24, Appli
575 6 2.7 1307 4 US-09-252-991A-20867 Sequence 20867, A
576 6 2.7 1382 2 US-08-737-715-2 Sequence 2, Appli
577 6 2.7 1382 3 US-09-457-040B-7 Sequence 7, Appli
578 6 2.7 1384 3 US-08-976-255-11 Sequence 11, Appli
579 6 2.7 1430 4 US-09-252-991A-18190 Sequence 18190, A
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581 6 2.7 1495 4 US-09-543-681A-5986 Sequence 5986, Ap
582 6 2.7 1498 4 US-09-252-991A-31234 Sequence 31234, A
583 6 2.7 1498 4 US-09-792-616-9 Sequence 9, Appli
584 6 2.7 1503 3 US-08-976-255-14 Sequence 14, Appli
585 6 2.7 1507 6 5268270-2 Patent No. 5268270
586 6 2.7 1520 4 US-09-252-991A-17501 Sequence 17501, A
587 6 2.7 1560 4 US-09-264-512B-2 Sequence 2, Appli
588 6 2.7 1780 1 US-08-769-309A-5 Sequence 5, Appli
589 6 2.7 1780 2 US-08-994-570-5 Sequence 5, Appli
590 6 2.7 1781 2 US-08-477-451-11 Sequence 11, Appli
591 6 2.7 1781 4 US-09-961-403-13 Sequence 13, Appli
592 6 2.7 1788 2 US-08-962-284-2 Sequence 2, Appli
593 6 2.7 1861 2 US-08-790-912-4 Sequence 4, Appli
594 6 2.7 1956 3 US-08-843-417-10 Sequence 10, Appli
595 6 2.7 1956 4 US-09-527-013-10 Sequence 10, Appli
596 6 2.7 1964 2 US-08-790-912-3 Sequence 3, Appli
597 6 2.7 1965 4 US-09-583-110-3829 Sequence 3829, Ap
598 6 2.7 2052 2 US-08-790-912-2 Sequence 2, Appli
599 6 2.7 2205 1 US-08-093-453B-2 Sequence 2, Appli
600 6 2.7 2285 4 US-09-252-991A-17790 Sequence 17790, A
601 6 2.7 2544 2 US-08-576-626A-32 Sequence 32, Appli
602 6 2.7 2807 4 US-09-543-681A-4980 Sequence 4980, Ap
603 6 2.7 2890 3 US-09-413-814-67 Sequence 67, Appli
604 6 2.7 2892 4 US-08-469-260A-387 Sequence 387, App
605 6 2.7 2872 4 US-08-488-446-387 Sequence 387, App
606 6 2.7 2972 4 US-08-467-344A-387 Sequence 387, App
607 6 2.7 2972 4 US-08-424-550B-387 Sequence 387, App
608 6 2.7 3433 4 US-09-091-501B-10 Sequence 10, Appli
609 6 2.7 3433 4 US-09-538-092-1136 Sequence 1136, Ap
610 6 2.7 3798 3 US-09-335-409-5 Sequence 6, Appli
611 6 2.7 3798 3 US-09-568-102-6 Sequence 6, Appli
612 6 2.7 3798 3 US-09-567-969-6 Sequence 6, Appli
613 6 2.7 3798 3 US-09-568-480-6 Sequence 6, Appli
614 6 2.7 3798 3 US-09-568-486-6 Sequence 6, Appli
615 6 2.7 3798 3 US-09-568-472-6 Sequence 6, Appli
616 6 2.7 3798 3 US-09-567-899-6 Sequence 6, Appli
617 6 2.7 5032 4 US-09-538-092-979 Sequence 979, App
618 6 2.7 7257 3 US-09-335-409-5 Sequence 5, Appli
619 6 2.7 7257 3 US-09-568-102-5 Sequence 5, Appli
620 6 2.7 7257 3 US-09-567-969-5 Sequence 5, Appli
621 6 2.7 7257 3 US-09-568-480-5 Sequence 5, Appli
622 6 2.7 7257 3 US-09-568-486-5 Sequence 5, Appli
623 6 2.7 7257 3 US-09-568-472-5 Sequence 5, Appli
624 6 2.7 7257 3 US-09-567-899-5 Sequence 5, Appli
625 6 2.7 8991 4 US-08-714-741-32 Sequence 32, Appli
626 6 2.7 8991 4 US-08-714-741-32 Sequence 32, Appli

ALIGNMENTS

RESULT 1
US-09-621-976-8
; Sequence 8, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621.976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 8
; LENGTH: 227
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -22...-1
US-09-621-976-8

Query Match 94.2%; Score 210; DB 4; Length 227;
Best Local Similarity 100.0%; Pred. No. 2e-195;
Matches 210; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGWTMLVTAALLGLMMVVTGDEENSPCAHEALLDEDTLFCQGLEVFYVPELGNIGCKV 60
Db 1 MGWTMLVTAALLGLMMVVTGDEENSPCAHEALLDEDTLFCQGLEVFYVPELGNIGCKV 60

Qy 61 VPDCCNRYRQKITSNWEPIVKFPGAVDGAATYILVMVYDPDAPSRABPRQRFWRHLVTDIKG 120
Db 61 VPDCCNRYRQKITSNWEPIVKFPGAVDGAATYILVMVYDPDAPSRABPRQRFWRHLVTDIKG 120

Qy 121 ADLKKGIQCGELSAIQAPSPAHSGFHYRFFVYLOSGKVISLLPKENKTRGSKWMDRF 180
Db 121 ADLKKGIQCGELSAIQAPSPAHSGFHYRFFVYLOSGKVISLLPKENKTRGSKWMDRF 180

Qy 181 LNRHFLGPEASTQFMTQNYQDSPTLQAPR 210
Db 181 LNRHFLGPEASTQFMTQNYQDSPTLQAPR 210

RESULT 2
US-09-513-999C-8
; Sequence 8,'Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
```

; Patent No. 6783961  
; FILE REFERENCE: 59.US2.REG  
; CURRENT APPLICATION NUMBER: US/09/513,999C  
; CURRENT FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: US 60/122,487  
; PRIOR FILING DATE: 1999-02-26  
; NUMBER OF SEQ ID NOS: 36681  
; SOFTWARE: Patent.pm  
; SEQ ID NO 8  
; LENGTH: 227  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SIGNAL  
; LOCATION: -22...-1  
; OTHER INFORMATION: score 8.5  
; OTHER INFORMATION: seq AALLGLMMVVTG/DE  
US-09-513-999C-8

Query Match 94.2%; Score 210; DB 4; Length 227;  
Best Local Similarity 100.0%; Pred. No. 2e-195;  
Matches 210; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGWTMLVTAALLGLMMVVTGDEDENSPCAHEALLDEDTLFCQGLEVFYPYELGNIGCKV 60  
DB 1 MGWTMLVTAALLGLMMVVTGDEDENSPCAHEALLDEDTLFCQGLEVFYPYELGNIGCKV 60

QY 61 VPDCCNNYRQKITSWMEPIVKFPGAVDGTATILVMVDPDAPSRABPRQRFWRHVLVTDIKG 120  
DB 61 VPDCCNNYRQKITSWMEPIVKFPGAVDGTATILVMVDPDAPSRABPRQRFWRHVLVTDIKG 120

QY 121 ADLKGKIQGELSAYQAPSPPAHSGFHRYPQFVYVYLBQGVKVISLLPKENKTRGSKWMDRF 180  
DB 121 ADLKGKIQGELSAYQAPSPPAHSGFHRYPQFVYVYLBQGVKVISLLPKENKTRGSKWMDRF 180

QY 181 LNRFLGPEASTQPTWQYQDSPTLOAPR 210  
DB 181 LNRFLGPEASTQPTWQYQDSPTLOAPR 210

RESULT 3  
US-09-208-718-3  
; Sequence 3, Application US/09208718  
; Patent No. 6063767  
; GENERAL INFORMATION:  
; APPLICANT: Lal, Preeti  
; APPLICANT: Hillman, Jennifer  
; APPLICANT: Corley, Neil  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: HUMAN PHOSPHOLIPID BINDING PROTEINS  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Dr.  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/208,718  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/958,820  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749

; REFERENCE/DOCKET NUMBER: PF-0379 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 650-855-0555  
; TELEFAX: 650-845-4166  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 227 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: LUNGTUT12  
; CLONE: 3126479  
US-09-208-718-3

Query Match 55.6%; Score 124; DB 3; Length 227;  
Best Local Similarity 100.0%; Pred. No. 3.9e-112;  
Matches 124; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGWTMLVTAALLGLMMVVTGDEDENSPCAHEALLDEDTLFCQGLEVFYPYELGNIGCKV 60  
DB 1 MGWTMLVTAALLGLMMVVTGDEDENSPCAHEALLDEDTLFCQGLEVFYPYELGNIGCKV 60

QY 61 VPDCCNNYRQKITSWMEPIVKFPGAVDGTATILVMVDPDAPSRABPRQRFWRHVLVTDIKG 120  
DB 61 VPDCCNNYRQKITSWMEPIVKFPGAVDGTATILVMVDPDAPSRABPRQRFWRHVLVTDIKG 120

QY 121 ADLK 124  
DB 121 ADLK 124

RESULT 4  
US-09-248-796A-21372  
; Sequence 21372, Application US/09248796A  
; Patent No. 6747137  
; GENERAL INFORMATION:  
; APPLICANT: Keith Weinstock et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN  
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.132  
; CURRENT APPLICATION NUMBER: US/09/248,796A  
; CURRENT FILING DATE: 1999-02-12  
; PRIOR APPLICATION NUMBER: US 60/074,725  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: US 60/096,409  
; PRIOR FILING DATE: 1998-08-13  
; NUMBER OF SEQ ID NOS: 28208  
; SEQ ID NO 21372  
; LENGTH: 116  
; TYPE: PRT  
; ORGANISM: Candida albicans  
; FEATURE:  
; NAME/KEY: UNSURE  
; LOCATION: (6), (20)  
; OTHER INFORMATION: Identity of amino acid sequences at the above locations are unknown  
US-09-248-796A-21372

Query Match 3.6%; Score 8; DB 4; Length 116;  
Best Local Similarity 100.0%; Pred. No. 4.6;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 GRASEPKH 218  
DB 43 GRASEPKH 50

RESULT 5  
US-08-974-546-3  
; Sequence 3, Application US/08974546  
; Patent No. 5945287  
; GENERAL INFORMATION:  
; APPLICANT: Hillman, Jennifer L.



APPLICANT: Lal, Preeti  
APPLICANT: Corley, Neil C.  
APPLICANT: Shah, Purvi  
TITLE OF INVENTION: TWO HUMAN HEAT SHOCK PROTEIN HOMOLOGS  
NUMBER OF SEQUENCES: 6  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Dr.  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: Fast-Seq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/974,546  
FILING DATE: Filed Herewith  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J.  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PF-0428  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650-855-0555  
TELEFAX: 650-845-4166  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 137 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: BRSTNOT18  
CLONE: 3172266  
US-08-974-546-3

Query Match 3.6%; Score 8; DB 2; Length 137;  
Best Local Similarity 100.0%; Pred. No. 5.4;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 206 LQAPRGA 213  
|||||  
DB 2 LQAPRGA 9

RESULT 6  
US-09-621-976-7099  
Sequence 7099, Application US/09621976  
Patent No. 6639063  
GENERAL INFORMATION:  
APPLICANT: Dumas Milne Edwards, J.B.  
APPLICANT: Jobert, S.  
APPLICANT: Giordano, J.Y.  
TITLE OF INVENTION: ESTs and Encoded Human Proteins.  
FILE REFERENCE: GENSET 054PR2  
CURRENT APPLICATION NUMBER: US/09/621,976  
CURRENT FILING DATE: 2000-07-21  
NUMBER OF SEQ ID NOS: 19335  
SOFTWARE: Patent.pm  
SEQ ID NO 7099  
LENGTH: 143  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-621-976-7099

Query Match 3.6%; Score 8; DB 4; Length 143;  
Best Local Similarity 100.0%; Pred. No. 5.6;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 206 LQAPRGA 213  
|||||  
DB 2 LQAPRGA 9

RESULT 7  
US-09-134-000C-4833  
Sequence 4833, Application US/09134000C  
Patent No. 6617156  
GENERAL INFORMATION:  
APPLICANT: Lynn Doucette-Stamm et al  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO  
FILE REFERENCE: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS  
CURRENT APPLICATION NUMBER: US/09/134,000C  
CURRENT FILING DATE: 1998-08-13  
PRIOR APPLICATION NUMBER: US 60/055,778  
PRIOR FILING DATE: 1997-08-15  
NUMBER OF SEQ ID NOS: 6812  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 4833  
LENGTH: 190  
TYPE: PRT  
ORGANISM: Enterococcus faecalis  
US-09-134-000C-4833

Query Match 3.6%; Score 8; DB 4; Length 190;  
Best Local Similarity 100.0%; Pred. No. 7.2;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 33 EALLDEDT 40  
|||||  
DB 27 EALLDEDT 34

RESULT 8  
US-08-403-378B-7  
Sequence 7, Application US/08403378B  
Patent No. 5759991  
GENERAL INFORMATION:  
APPLICANT: TOHDOH, NAOKI  
APPLICANT: TOJO, SHIN-ICHIRO  
APPLICANT: KOJIMA, SHIN-ICHI  
APPLICANT: UEKI, YASUYUKI  
APPLICANT: NISHIHARA, TOSHIO  
APPLICANT: FUKUSHIMA, NORUYUKI  
APPLICANT: IRIE, TSUNEMASA  
APPLICANT: ONO, KEIICHI  
APPLICANT: AGUI, HIDEO  
APPLICANT: OJIKI, KOSEI  
TITLE OF INVENTION: NEUROTROPHIC PEPTIDE DERIVATIVES  
NUMBER OF SEQUENCES: 25  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SUGHRUE, MION, ZINN, MACPEAK & SEAS  
STREET: 2100 PENNSYLVANIA AVENUE, NW  
CITY: WASHINGTON  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20037-3202  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA: US/08/403,378B  
APPLICATION NUMBER:  
FILING DATE:  
CLASSIFICATION: 530  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: JP 3-124688  
FILING DATE: 27-APR-1991  
PRIOR APPLICATION DATA:

APPLICATION NUMBER: JP 1-080398  
FILING DATE: 30-MAR-1989  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: JP 1-280590  
FILING DATE: 27-OCT-1989  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: JP 1-333241  
FILING DATE: 21-DEC-1989  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: JP 2-243003  
FILING DATE: 12-SEP-1990  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/758,043  
FILING DATE: 12-SEP-1991  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/873,764  
FILING DATE: 27-APR-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/JP93/01214  
FILING DATE: 27-AUG-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: BIGGART, WADDELL A  
REGISTRATION NUMBER: 24,861  
REFERENCE/DOCKET NUMBER:  
TELEPHONE: (202)293-7060  
TELEFAX: (202)293-7860  
TELEX: 6491103  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 15 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
ORIGINAL SOURCE:  
ORGANISM: rattus norvegicus  
STRAIN: wistar  
TISSUE TYPE: hippocampal tissue of brain  
FEATURE:  
NAME/KEY: Peptide  
LOCATION: 1..15  
US-08-403-378B-7

Query Match 3.1%; Score 7; DB 1; Length 15;  
Best Local Similarity 100.0%; Pred. No. 7.1;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 96 DPDAPSR 102  
Db 8 DPDAPSR 14

RESULT 9  
US-09-578-063-28  
Sequence 28, Application US/09578063  
Patent No. 6764677  
GENERAL INFORMATION:  
APPLICANT: McCarthy, Sean A  
APPLICANT: Barnes, Thomas M  
APPLICANT: Fraser, Christopher C  
APPLICANT: Sharp, John D  
TITLE OF INVENTION: NOVEL GENES ENCODING PROTEINS HAVING DIAGNOSTIC, THERAPEUTIC, AND OTHER USES  
FILE REFERENCE: 210147.0023/6U1  
CURRENT APPLICATION NUMBER: US/09/578,063  
PRIOR FILING DATE: 2000-05-24  
PRIOR APPLICATION NUMBER: US 09/333,159  
PRIOR FILING DATE: 1999-06-14  
NUMBER OF SEQ ID NOS: 79  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 28  
LENGTH: 22

TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-578-063-28

Query Match 3.1%; Score 7; DB 4; Length 22;  
Best Local Similarity 100.0%; Pred. No. 9.9;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 10 AALLLGL 16  
Db 9 AALLLGL 15

RESULT 10  
US-09-252-991A-25566  
Sequence 25566, Application US/09252991A  
Patent No. 6551795  
GENERAL INFORMATION:  
APPLICANT: Marc J. Rubenfield et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
FILE REFERENCE: 107196.136  
CURRENT APPLICATION NUMBER: US/09/252,991A  
CURRENT FILING DATE: 1999-02-18  
PRIOR APPLICATION NUMBER: US 60/074,788  
PRIOR FILING DATE: 1998-02-18  
PRIOR APPLICATION NUMBER: US 60/094,190  
PRIOR FILING DATE: 1998-07-27  
NUMBER OF SEQ ID NOS: 33142  
SEQ ID NO 25566  
LENGTH: 110  
TYPE: PRT  
ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-25566

Query Match 3.1%; Score 7; DB 4; Length 110;  
Best Local Similarity 100.0%; Pred. No. 41;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 10 AALLLGL 16  
Db 14 AALLLGL 20

RESULT 11  
US-09-252-991A-29066  
Sequence 29066, Application US/09252991A  
Patent No. 6551795  
GENERAL INFORMATION:  
APPLICANT: Marc J. Rubenfield et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
FILE REFERENCE: 107196.136  
CURRENT APPLICATION NUMBER: US/09/252,991A  
CURRENT FILING DATE: 1999-02-18  
PRIOR APPLICATION NUMBER: US 60/074,788  
PRIOR FILING DATE: 1998-02-18  
PRIOR APPLICATION NUMBER: US 60/094,190  
PRIOR FILING DATE: 1998-07-27  
NUMBER OF SEQ ID NOS: 33142  
SEQ ID NO 29066  
LENGTH: 115  
TYPE: PRT  
ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-29066

Query Match 3.1%; Score 7; DB 4; Length 115;  
Best Local Similarity 100.0%; Pred. No. 43;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 138 APSPPAH 144  
Db 94 APSPPAH 100

RESULT 12  
US-10-101-464A-618  
; Sequence 618, Application US/10101464A  
; Patent No. 6768041  
; GENERAL INFORMATION:  
; APPLICANT: Strabala, Timothy  
; APPLICANT: Nieuwenhuizen, Nicolaas  
; APPLICANT: Higgins, Colleen M.  
; TITLE OF INVENTION: Compositions Isolated from Plant Cells  
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling  
; FILE REFERENCE: 11000.1020c2  
; CURRENT APPLICATION NUMBER: US/10/101,464A  
; CURRENT FILING DATE: 2002-03-18  
; PRIOR APPLICATION NUMBER: 09/704,302  
; PRIOR FILING DATE: 2000-11-01  
; PRIOR APPLICATION NUMBER: 09/228,986  
; PRIOR FILING DATE: 1999-01-12  
; PRIOR APPLICATION NUMBER: 60/162,866  
; PRIOR FILING DATE: 1999-11-01  
; PRIOR APPLICATION NUMBER: PCT/US00/00724  
; PRIOR FILING DATE: 2000-01-11  
; NUMBER OF SEQ ID NOS: 989  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 618  
; LENGTH: 135  
; TYPE: PRT  
; ORGANISM: Eucalyptus grandis  
US-10-101-464A-618

Query Match 3.1%; Score 7; DB 4; Length 135;  
Best Local Similarity 100.0%; Pred. No. 49;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 LVTRALL 13  
Db 59 LVTRALL 65

RESULT 13  
US-09-270-767-43926  
; Sequence 43926, Application US/09270767  
; Patent No. 6703491  
; GENERAL INFORMATION:  
; APPLICANT: Homburger et al.  
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
; FILE REFERENCE: File Reference: 7326-094  
; CURRENT APPLICATION NUMBER: US/09/270,767  
; CURRENT FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 62517  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 43926  
; LENGTH: 141  
; TYPE: PRT  
; ORGANISM: Drosophila melanogaster  
; FEATURE:  
; OTHER INFORMATION: Xaa means any amino acid  
US-09-270-767-43926

Query Match 3.1%; Score 7; DB 4; Length 141;  
Best Local Similarity 100.0%; Pred. No. 51;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 94 MVDPDP 100  
Db 65 MVDPDP 71

RESULT 14  
US-07-644-372-2  
; Sequence 2, Application US/07644372  
; Patent No. 5416009

; GENERAL INFORMATION:  
; APPLICANT: Lazzeri, Mario E.  
; APPLICANT: Nutman, Thomas B.  
; APPLICANT: Weiss, Niklaus  
; TITLE OF INVENTION: A DNA SEGMENT ENCODING A SPECIFIC  
; TITLE OF INVENTION: IMMUNODIAGNOSTIC ANTIGEN  
; NUMBER OF SEQUENCES: 2  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: CUSHMAN, DARBY & CUSHMAN  
; STREET: 1615 L. Street, N.W.  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20036  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/644,372  
; FILING DATE: 19910123  
; CLASSIFICATION: 435  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202)861-3000  
; TELEFAX: (202)822-0944  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 152 amino acids  
; TYPE: AMINO ACID  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-07-644-372-2

Query Match 3.1%; Score 7; DB 1; Length 152;  
Best Local Similarity 100.0%; Pred. No. 55;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 96 DPDPSPR 102  
Db 98 DPDPSPR 104

RESULT 15  
US-09-208-718-6  
; Sequence 6, Application US/09208718  
; Patent No. 6063767  
; GENERAL INFORMATION:  
; APPLICANT: Lal, Preeti  
; APPLICANT: Hillman, Jennifer  
; APPLICANT: Corley, Neil  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: HUMAN PHOSPHOLIPID BINDING PROTEINS  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Dr.  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/208,718  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/958,820  
; FILING DATE:

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; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0379 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 152 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 1143527
; US-09-208-718-6

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Query Match          3.1%; Score 7; DB 3; Length 152;
Best Local Similarity 100.0%; Pred. No. 55;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 96 DPDPSPR 102
Db 53 DPDPSPR 59

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Search completed: January 31, 2005, 15:11:42
Job time : 31 secs

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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: January 31, 2005, 15:11:04 ; Search time 154 Seconds  
(without alignments)  
519.459 Million cell updates/sec

Title: US-10-035-958-61  
Perfect score: 223  
Sequence: 1 MGMTMLVTAALLGLMMVV.....PTLQAPGRASEPKHKTRQR 223

Scoring table: OLIGO  
Gapop 60.0 , Gapext 60.0

Searched: 2002273 seqs, 358729239 residues  
Word size : 6

Total number of hits satisfying chosen parameters: 5050

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Listing first 1500 summaries

Database : A\_Geneseq\_23Sep04.\*  
1: Geneseqp1980s.\*  
2: Geneseqp1990s.\*  
3: Geneseqp2000s.\*  
4: Geneseqp2001s.\*  
5: Geneseqp2002s.\*  
6: Geneseqp2003as.\*  
7: Geneseqp2003bs.\*  
8: Geneseqp2004s.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	223	100.0	223	3 AAB18923	Aab18923 A novel p
2	223	100.0	223	5 AAU83707	Aau83707 Human PRO
3	223	100.0	223	5 ABB84969	Abb84969 Human PRO
4	223	100.0	223	5 ABB95575	Abb95575 Human ang
5	223	100.0	223	6 ABU69117	Abu69117 Human PRO
6	223	100.0	223	6 ABU80854	Abu80854 Human PRO
7	223	100.0	223	6 ABO33820	Abo33820 Novel hum
8	223	100.0	223	6 ABO19433	Abo19433 Human sec
9	223	100.0	223	6 ABO69094	Abu69094 Human PRO
10	223	100.0	223	6 ABU82163	Abu82163 Novel hum
11	223	100.0	223	6 ABU81558	Abu81558 Human sec
12	223	100.0	223	6 ADA76586	Ada76586 Novel hum
13	223	100.0	223	6 ABJ72343	Abj72343 Human PRO
14	223	100.0	223	6 ABJ72471	Abj72471 Human PRO
15	223	100.0	223	6 ABO34366	Abo34366 Human sec
16	223	100.0	223	7 ABO25141	Abo25141 Human sec
17	223	100.0	223	7 ABJ72173	Abj72173 Human mem
18	223	100.0	223	7 ABB83722	Abb83722 Novel hum
19	223	100.0	223	7 ABB80828	Abb80828 Novel hum
20	223	100.0	223	7 ABB73369	Abb73369 Novel hum
21	223	100.0	223	7 ABB78451	Abb78451 Novel hum
22	223	100.0	223	7 ABB85099	Abb85099 Human PRO
23	223	100.0	223	7 ABB78205	Abb78205 Novel hum
24	223	100.0	223	7 ABB87271	Abb87271 Human PRO
25	223	100.0	223	7 ABB84853	Abb84853 Human PRO

26	223	100.0	223	7 ADB83968	Adb83968 Novel hum
27	223	100.0	223	7 ADB73123	Adb73123 Novel hum
28	223	100.0	223	7 AAe39111	Aae39111 Human PRO
29	223	100.0	223	7 AAe39048	Aae39048 Human PRO
30	223	100.0	223	7 ADC36961	Adc36961 Human PRO
31	223	100.0	223	7 ADC21951	Adc21951 Human PRO
32	223	100.0	223	7 ADC29817	Adc29817 Novel hum
33	223	100.0	223	7 ADC49982	Adc49982 Novel hum
34	223	100.0	223	7 ADC49181	Adc49181 Novel hum
35	223	100.0	223	7 ADC49698	Adc49698 Novel hum
36	223	100.0	223	7 ADC47559	Adc47559 Novel hum
37	223	100.0	223	7 ADC47304	Adc47304 Novel hum
38	223	100.0	223	7 ADC78179	Adc78179 Novel hum
39	223	100.0	223	7 ADD06414	Add06414 Novel hum
40	223	100.0	223	7 ADD10595	Add10595 Human sec
41	223	100.0	223	7 ADC77933	Adc77933 Novel hum
42	223	100.0	223	7 ADD11555	Add11555 Human sec
43	223	100.0	223	7 ADD50896	Add50896 Novel hum
44	223	100.0	223	7 ADD51142	Add51142 Novel hum
45	223	100.0	223	7 ADD37348	Add37348 Human sec
46	223	100.0	223	7 ADD50623	Add50623 Human PRO
47	223	100.0	223	7 ADD50377	Add50377 Human PRO
48	223	100.0	223	7 ADD51388	Add51388 Novel hum
49	223	100.0	223	8 ADC48935	Adc48935 Novel hum
50	223	100.0	223	8 ADE21106	Ade21106 Novel hum
51	223	100.0	223	8 ADE05950	Ade05950 Human PRO
52	223	100.0	223	8 ADD75179	Add75179 Human PRO
53	223	100.0	223	8 ADD75925	Add75925 Novel hum
54	223	100.0	223	8 ADD85157	Add85157 Novel hum
55	223	100.0	223	8 ADD86983	Add86983 Novel hum
56	223	100.0	223	8 ADE20860	Ade20860 Novel hum
57	223	100.0	223	8 ADE39157	Ade39157 Novel hum
58	223	100.0	223	8 ADE05704	Ade05704 Human PRO
59	223	100.0	223	8 ADD73689	Add73689 Human PRO
60	223	100.0	223	8 ADD78529	Add78529 Novel hum
61	223	100.0	223	8 ADE41556	Ade41556 Human sec
62	223	100.0	223	8 ADE21352	Ade21352 Novel hum
63	223	100.0	223	8 ADD77467	Add77467 Novel hum
64	223	100.0	223	8 ADE20614	Ade20614 Novel hum
65	223	100.0	223	8 ADD75679	Add75679 Human PRO
66	223	100.0	223	8 ADD74195	Add74195 Human PRO
67	223	100.0	223	8 ADD74441	Add74441 Human PRO
68	223	100.0	223	8 ADD76171	Add76171 Novel hum
69	223	100.0	223	8 ADD85663	Add85663 Novel hum
70	223	100.0	223	8 ADE05212	Ade05212 Human PRO
71	223	100.0	223	8 ADD75425	Add75425 Human PRO
72	223	100.0	223	8 ADD76969	Add76969 Novel hum
73	223	100.0	223	8 ADD86737	Add86737 Novel hum
74	223	100.0	223	8 ADD78205	Add78205 Novel hum
75	223	100.0	223	8 ADD77713	Add77713 Novel hum
76	223	100.0	223	8 ADD77959	Add77959 Novel hum
77	223	100.0	223	8 ADD85417	Add85417 Novel hum
78	223	100.0	223	8 ADD73949	Add73949 Human PRO
79	223	100.0	223	8 ADD74687	Add74687 Human PRO
80	223	100.0	223	8 ADD77215	Add77215 Novel hum
81	223	100.0	223	8 ADD85909	Add85909 Novel hum
82	223	100.0	223	8 ADE05458	Ade05458 Human PRO
83	223	100.0	223	8 ADD74933	Add74933 Human PRO
84	223	100.0	223	8 ADF09260	Adf09260 Human sec
85	223	100.0	223	8 AGO5745	Ag05745 Novel hum
86	223	100.0	223	8 ADG27299	Adg27299 Human PRO
87	223	100.0	223	8 ADG11362	Adg11362 Novel hum
88	223	100.0	223	8 ADG12141	Adg12141 Novel hum
89	223	100.0	223	8 ADF94698	Adf94698 Novel hum
90	223	100.0	223	8 ADG06794	Adg06794 Human PRO
91	223	100.0	223	8 ADH39138	Adh39138 Novel hum
92	223	100.0	223	8 ADH43739	Adh43739 Human PRO
93	223	100.0	223	8 ADG34228	Adg34228 Novel hum
94	223	100.0	223	8 ADI33698	Adi33698 Human PRO
95	223	100.0	223	8 ADH69792	Adh69792 Human PRO
96	223	100.0	223	8 ADI29953	Adi29953 Novel hum
97	223	100.0	223	8 ADM27350	Adm27350 Novel hum
98	223	100.0	223	8 ADK83084	Adk83084 Human PRO

99	223	100.0	223	8	ADK66708	Human PRO	172	10	4.5	10	8	AD134904	Cardiovas
100	214	96.0	227	7	ADK68202	Novel NOV	173	10	4.5	10	8	AD134929	Human CPP
101	210	94.2	227	2	AY35976	Extended	174	10	4.5	10	8	AD134933	Human CPP
102	210	94.2	227	3	AY64647	Human pho	175	10	4.5	10	8	AD134932	Human CPP
103	210	94.2	227	3	AG00016	Human sec	176	10	4.5	10	8	AD134931	Human CPP
104	210	94.2	227	4	AAB88590	Human hyd	177	10	4.5	10	8	AD134912	Human CPP
105	210	94.2	227	7	ADG76163	Human NOV	178	10	4.5	10	8	AD134913	Human CPP
106	210	94.2	227	7	ADK68204	Novel NOV	179	10	4.5	10	8	AD134915	Human CPP
107	210	94.2	227	7	ADK68182	Novel NOV	180	10	4.5	10	8	AD134914	Human CPP
108	210	94.2	227	8	ADP19284	Human sec	181	10	4.5	89	8	AD133452	Lolium pe
109	210	94.2	235	7	ADG76149	Human NOV	182	10	4.5	150	5	AAE25733	Peruvian
110	198	88.8	206	7	ADG76153	Human NOV	183	10	4.5	163	7	ADC03392	Rice flow
111	189	84.8	227	7	ADK68192	Novel NOV	184	10	4.5	173	5	AAE25736	Corn Ft h
112	188	84.3	205	7	ADG76165	Human NOV	185	10	4.5	177	5	AAE25741	Corn Ft h
113	188	84.3	209	7	ADK68188	Novel NOV	186	10	4.5	177	5	ADL33451	Festuca a
114	188	84.3	211	7	ADG76157	Human NOV	187	10	4.5	178	8	ADN94938	Japanese
115	176	78.9	182	7	ADG76159	Human NOV	188	10	4.5	178	8	ADN94935	Indian ri
116	175	78.5	227	7	ADK68194	Novel NOV	189	10	4.5	179	5	AAE24557	Rice Hd3a
117	159	71.3	227	7	ADK68200	Novel NOV	190	10	4.5	179	5	ABG31338	Floral de
118	124	55.6	183	8	ADH80692	Human pol	191	10	4.5	179	5	ABG31337	Rice Hd3a
119	124	55.6	206	7	ADG76151	Human NOV	192	10	4.5	179	8	ADN94939	Indian ri
120	124	55.6	223	4	AAU14138	Human nov	193	10	4.5	179	8	ADN94940	Japanese
121	124	55.6	223	8	ADI34902	Cardiovas	194	10	4.5	180	5	AAE25754	Wheat FT
122	124	55.6	227	3	AAB43330	Human ORF	195	10	4.5	184	7	ADC03498	Rice flow
123	124	55.6	227	3	AAB24482	Human sec	196	10	4.5	202	4	ABB66542	Drosophil
124	124	55.6	227	3	AA94263	Human pho	197	10	4.5	276	6	AAE38277	Rice enha
125	124	55.6	227	4	AAAB4368	Human SEC	198	9	4.0	163	7	ADC03386	Rice flow
126	124	55.6	227	7	ADB88999	Human PhO	199	8	3.6	8	ADI34906	Cardiovas	
127	124	55.6	227	7	ADG76145	Human NOV	200	8	3.6	8	ADI34919	Human CPP	
128	124	55.6	227	7	ADK68198	Novel NOV	201	8	3.6	8	ADI34923	Human CPP	
129	124	55.6	227	8	ADI34900	Cardiovas	202	8	3.6	137	2	AA32859	Human hea
130	124	55.6	227	8	ADK70502	Respirato	203	8	3.6	141	4	AAU18030	Human imm
131	124	55.6	235	7	ADG76147	Human NOV	204	8	3.6	141	4	AAU94741	Human rep
132	120	53.8	149	3	AAAB24591	Human sec	205	8	3.6	141	4	ABB10228	Human cDN
133	109	48.9	227	7	ADK68196	Novel NOV	206	8	3.6	141	4	AAU22763	Human pro
134	106	47.5	182	4	AAU14374	Human nov	207	8	3.6	141	5	ABP66815	Human pol
135	102	45.7	182	7	ADG76161	Human NOV	208	8	3.6	141	7	ADB31654	Human nov
136	102	45.7	201	8	ADI34903	Cardiovas	209	8	3.6	143	6	ABP76367	Human GEN
137	102	45.7	205	8	ADI34901	Cardiovas	210	8	3.6	147	5	ABP41536	Human ova
138	102	45.7	211	7	ADG76155	Human NOV	211	8	3.6	172	8	ADJ67615	Human ova
139	96	43.0	209	7	ADK68184	Novel NOV	212	8	3.6	173	7	ADC03372	Rice flow
140	85	38.1	205	7	ADK68190	Novel NOV	213	8	3.6	176	4	ABB67136	Drosophil
141	85	38.1	209	7	ADK68186	Novel NOV	214	8	3.6	190	7	ADH86948	Enterococ
142	72	32.3	86	3	AAAB24597	Human sec	215	8	3.6	199	8	ADJ67622	Human ova
143	72	32.3	87	3	AAAB24487	Human sec	216	8	3.6	220	8	ADJ67621	Human ova
144	64	28.7	121	2	AA11860	Human 5'	217	8	3.6	316	4	AAU35202	Enterococ
145	44	19.7	105	6	AAE37272	Human gen	218	8	3.6	316	6	ABU29132	Protein e
146	23	10.3	23	3	AAAB24593	Human sec	219	8	3.6	319	5	ABB49425	Listeria
147	22	9.9	22	8	ADI34916	Human CPP	220	8	3.6	319	6	ABU32491	Protein e
148	22	9.9	22	8	ADI34928	Human CPP	221	8	3.6	328	5	ABP28638	Streptoco
149	22	9.9	22	8	ADI34918	Human CPP	222	8	3.6	328	5	ABP28639	Streptoco
150	22	9.9	22	8	ADI34922	Human CPP	223	8	3.6	328	6	ABU46600	Protein e
151	22	9.9	22	8	ADI34926	Human CPP	224	8	3.6	344	6	ABU39839	Protein e
152	22	9.9	22	8	ADI34920	Human CPP	225	8	3.6	693	5	ABP69529	Human pol
153	22	9.9	22	8	ADI34921	Human CPP	226	8	3.6	693	7	ADM05164	Human pro
154	22	9.9	22	8	ADI34911	Human CPP	227	7	3.1	7	8	ADI34909	Cardiovas
155	22	9.9	22	8	ADI34917	Human CPP	228	7	3.1	7	8	ADI34910	Human CPP
156	22	9.9	22	8	ADI34927	Human CPP	229	7	3.1	7	8	ADI34937	Human CPP
157	22	9.9	22	8	ADI34907	Cardiovas	230	7	3.1	14	4	ABB56056	Vascular
158	22	9.9	22	8	ADI34924	Human CPP	231	7	3.1	14	4	ABB56119	Vascular
159	22	9.9	22	8	ADI34925	Human CPP	232	7	3.1	14	4	AAU68426	Human Bre
160	22	9.9	22	8	ADI34930	Human CPP	233	7	3.1	14	4	AAU24906	Schizophr
161	22	9.9	22	8	ADI34905	Cardiovas	234	7	3.1	14	4	AAU25358	Schizophr
162	22	9.9	24	3	AAAB24592	Human sec	235	7	3.1	14	4	AAU15702	Schizophr
163	20	9.0	20	3	AAAB24594	Human sec	236	7	3.1	14	4	AAU15250	Schizophr
164	17	7.6	17	3	AAAB24595	Human sec	237	7	3.1	14	5	AAE25492	CAPI-36 t
165	14	6.3	21	3	AAAB24590	Human sec	238	7	3.1	14	5	ABP61568	Human RRP
166	14	6.3	83	3	AAAB24588	Human sec	239	7	3.1	14	5	ABG78850	Multiple
167	11	4.9	11	8	ADI34908	Cardiovas	240	7	3.1	14	5	ABG67773	Human ADP
168	11	4.9	11	8	ADI34935	Human CPP	241	7	3.1	14	6	ADA23912	Alzheimer
169	11	4.9	11	8	ADI34936	Human CPP	242	7	3.1	14	8	ADO78517	Schizophr
170	11	4.9	242	8	ADI34940	Mouse CPP	243	7	3.1	14	8	ADO78969	Schizophr
171	10	4.5	10	8	ADI34934	Human CPP	244	7	3.1	15	2	AAR49951	Rat HCNP

245	7	3.1	22	4	AAB66050	Aab66050 Human TAN	318	7	3.1	187	7	ADF30542	Adf30542 Rat angio
246	7	3.1	22	7	ADM42012	Adm42012 Human TAN	319	7	3.1	187	7	ADJ68662	Adj68662 Human hea
247	7	3.1	54	4	AAU51863	Aau51863 Propionib	320	7	3.1	198	4	ABG21522	Abg21522 Novel hum
248	7	3.1	54	6	ABM48382	Abm48382 Propionib	321	7	3.1	201	3	AAG45544	Aag45544 Arabidops
249	7	3.1	55	8	ABO55369	Abos55369 Human gen	322	7	3.1	202	3	AG095335	Ag095335 Arabidops
250	7	3.1	87	5	AAE25749	Aae25749 Rice FT h	323	7	3.1	210	7	ADF59218	Adf59218 Human pol
251	7	3.1	89	5	ABP33237	Abp33237 Human ORF	324	7	3.1	214	4	ADM20019	Adm20019 Protein e
252	7	3.1	107	3	AAG45546	Aag45546 Arabidops	325	7	3.1	215	6	ABR40608	AbR40608 zea maye
253	7	3.1	107	3	AAG31275	Aag31275 Arabidops	326	7	3.1	215	7	ADC23515	Adc23515 Polyptepi
254	7	3.1	107	3	AAG09537	Aag09537 Arabidops	327	7	3.1	225	4	ABG27458	Abg27458 Novel hum
255	7	3.1	110	7	ABO76820	AbO76820 Pseudomon	328	7	3.1	233	5	ABP62845	Abp62845 Human pol
256	7	3.1	114	5	ABP31295	Abp31295 Human ORF	329	7	3.1	240	2	AAU34555	Aay34555 Porphorym
257	7	3.1	115	7	ABO80320	AbO80320 Pseudomon	330	7	3.1	240	7	ADC96594	Adc96594 E. faeciu
258	7	3.1	126	7	ADM26353	Adm26353 Hyperther	331	7	3.1	243	2	AAU34418	Aay34418 Porphorym
259	7	3.1	129	4	AAG64067	Aag64067 Rat anter	332	7	3.1	249	5	AAU81187	Aau81187 Proteorho
260	7	3.1	129	6	ADA55230	Ada55230 Human pro	333	7	3.1	250	5	AAU81198	Aau81198 Proteorho
261	7	3.1	130	4	AAU45728	Aau45728 Propionib	334	7	3.1	250	5	AAU81186	Aau81186 Proteorho
262	7	3.1	130	6	ABM42247	Abm42247 Propionib	335	7	3.1	250	5	AAU81196	Aau81196 Proteorho
263	7	3.1	135	3	ABM25299	Abm25299 Eucalyptu	336	7	3.1	250	5	AAU81197	Aau81197 Proteorho
264	7	3.1	140	7	ADJ68454	Adj68454 Human hea	337	7	3.1	250	5	AAU81202	Aau81202 Proteorho
265	7	3.1	152	2	AAU15223	Aau15223 OV-16 ant	338	7	3.1	250	5	AAU81204	Aau81204 Proteorho
266	7	3.1	152	3	AAU94265	Aay94265 Onchocerc	339	7	3.1	250	5	AAU81191	Aau81191 Proteorho
267	7	3.1	152	7	ADB89002	Adb89002 Onchocerc	340	7	3.1	250	5	AAU81188	Aau81188 Proteorho
268	7	3.1	154	5	AAU18886	Aao18886 Human ova	341	7	3.1	250	5	AAU81206	Aau81206 Proteorho
269	7	3.1	154	6	ABU54862	Abu54862 Human ova	342	7	3.1	250	5	AAU81201	Aau81201 Proteorho
270	7	3.1	158	5	AAE25759	Aae25759 Corn FT h	343	7	3.1	250	5	AAU81203	Aau81203 Proteorho
271	7	3.1	169	5	ABP69361	Abp69361 Human pol	344	7	3.1	250	5	AAU81190	Aau81190 Proteorho
272	7	3.1	169	7	ABO76243	AbO76243 Pseudomon	345	7	3.1	250	5	AAU81199	Aau81199 Proteorho
273	7	3.1	172	3	AAU94996	Aay94996 Human sec	346	7	3.1	250	5	AAU81205	Aau81205 Proteorho
274	7	3.1	172	4	AAB66085	Aab66085 Murine TA	347	7	3.1	250	5	AAU81207	Aau81207 Proteorho
275	7	3.1	172	4	AAB66049	Aab66049 Human TAN	348	7	3.1	250	5	AAU81200	Aau81200 Proteorho
276	7	3.1	172	4	AAB88355	Aab88355 Human mem	349	7	3.1	252	3	AAU819903	Aau819903 A maize c
277	7	3.1	172	4	ABU52646	Abu52646 Human bra	350	7	3.1	272	5	AAU82741	Aau82741 Amino aci
278	7	3.1	172	5	ABP61507	Abp61507 Human NF-	351	7	3.1	297	7	ADI63086	Adi63086 Human apo
279	7	3.1	172	6	ABU08372	Abu08372 Amino aci	352	7	3.1	297	8	ADI26121	Adi26121 Human pro
280	7	3.1	172	6	ABU08367	Abu08367 Amino aci	353	7	3.1	297	8	ADI26119	Adi26119 Human pro
281	7	3.1	172	7	ADM42011	Adm42011 Human TAN	354	7	3.1	300	6	AAE34042	Aae34042 WNT-6 pro
282	7	3.1	172	7	ADM42019	Adm42019 Mouse TAN	355	7	3.1	312	8	ADI26123	Adi26123 Human pro
283	7	3.1	173	4	AAAB83149	Aab83149 Mouse peb	356	7	3.1	313	6	ABU44266	Abu44266 Protein e
284	7	3.1	174	5	AAE25738	Aae25738 Corn FT h	357	7	3.1	333	3	AAAB25242	Abb25242 Eucalyptu
285	7	3.1	174	5	AAE25762	Aae25762 Rice FT h	358	7	3.1	357	5	ABB90392	Abb90392 Human pol
286	7	3.1	175	2	AAU49098	Aay49098 Amino aci	359	7	3.1	359	7	ADM25982	Adm25982 Hyperther
287	7	3.1	175	3	AAU12459	Aad12459 Arabidops	360	7	3.1	364	4	ADM19854	Adm19854 Protein e
288	7	3.1	175	3	AAG45545	Aag45545 Arabidops	361	7	3.1	365	3	AAU81693	Aay81693 Human Wnt
289	7	3.1	175	3	AG09536	Ag09536 Arabidops	362	7	3.1	365	6	ABU55888	Abu55888 Human WNT
290	7	3.1	175	3	AAU31274	Aag31274 Arabidops	363	7	3.1	365	8	ADO08168	Ado08168 Human WNT
291	7	3.1	175	5	AAE24556	Aae24556 Arabidops	364	7	3.1	365	8	ADO22230	Ado22230 Human WNT
292	7	3.1	175	7	ADC77597	Adc77597 A.thalian	365	7	3.1	375	2	AAU43664	Aar43664 Ornithine
293	7	3.1	175	7	ABB80318	AbB80318 FT. 1/200	366	7	3.1	375	2	AAU43663	Aar43663 Ornithine
294	7	3.1	176	7	ADC77635	Adc77635 A. thalia	367	7	3.1	375	5	ABP28640	Abp28640 Streptoco
295	7	3.1	177	5	AAE25740	Aae25740 Corn FT h	368	7	3.1	375	5	ABP29899	Abp29899 Streptoco
296	7	3.1	178	4	ABB62148	Abb62148 Drosophil	369	7	3.1	384	7	ADG39857	Adg39857 Protein e
297	7	3.1	179	4	ABB62918	Abb62918 Drosophil	370	7	3.1	387	6	ABU42302	Abu42302 Protein e
298	7	3.1	179	6	ABU89793	Abu89793 Novel hum	371	7	3.1	389	2	AAU15428	Aar15428 3-acylati
299	7	3.1	179	8	ADO09334	Ado09334 Novel hum	372	7	3.1	437	3	AAU75773	Aay75773 Neisseria
300	7	3.1	181	7	ADE78988	Ade78988 Human pro	373	7	3.1	437	3	AAU75772	Aay75772 Neisseria
301	7	3.1	186	7	ADC95884	Adc95884 E. faeciu	374	7	3.1	457	6	ABP79302	N. gonorr
302	7	3.1	186	6	ABO14670	AbO14670 Novel hum	375	7	3.1	458	7	ABO78899	AbO78899 Pseudomon
303	7	3.1	186	8	ADI34938	Adi34938 Human PEB	376	7	3.1	462	4	ABG16917	Abg16917 Novel hum
304	7	3.1	186	8	ADI34939	Adi34939 Bovine PE	377	7	3.1	470	5	ABR52410	AbR52410 Protein r
305	7	3.1	187	2	AAU27897	Aar27897 HCNP prot	378	7	3.1	495	4	AAU34433	Aau34433 E. coli c
306	7	3.1	187	2	AAU27718	Aar27718 HCNP prec	379	7	3.1	495	4	AAG98401	Aag98401 Escherich
307	7	3.1	187	2	AAU49943	Aar49943 Human hip	380	7	3.1	495	6	ABU28486	Abu28486 Protein e
308	7	3.1	187	2	AAU49942	Aar49942 Rat hippo	381	7	3.1	518	8	ADM47965	Adm47965 Polyptepi
309	7	3.1	187	2	AAU64268	Aar64268 Phosphati	382	7	3.1	522	4	ABG25449	Abg25449 Novel hum
310	7	3.1	187	4	ABB64993	Abb64993 Drosophil	383	7	3.1	529	4	ABR88450	AbR88450 Human mem
311	7	3.1	187	4	ABM83148	Aab83148 Mouse peb	384	7	3.1	540	2	AAU22465	Aay22465 Human hip
312	7	3.1	187	4	ABM83150	AbB83150 Mouse peb	385	7	3.1	540	2	AAU22468	Aay22468 Human mam
313	7	3.1	187	5	AAE21676	Aae21676 Mouse pho	386	7	3.1	540	4	ABU59200	Abu59200 Human hip
314	7	3.1	187	5	AAE21677	Aae21677 Human pho	387	7	3.1	540	4	ABU59197	Abu59197 Human hip
315	7	3.1	187	5	ABG30879	Abg30879 Mouse ner	388	7	3.1	540	7	ADI34188	Adi34188 Alpha-exo
316	7	3.1	187	6	ABO14671	AbO14671 Novel hum	389	7	3.1	541	7	ADH87535	Adh87535 Enterococ
317	7	3.1	187	7	ADF30544	Adf30544 Rat angio	390	7	3.1	545	2	AAU22464	Aay22464 Human hip

Adf30542	Rat angio
Adj68662	Human hea
Abg21522	Novel hum
Aag45544	Arabidops
Ag095335	Arabidops
Adf59218	Human pol
Adm20019	Protein e
AbR40608	Zea maye
Adc23515	Polypepti
Abg27458	Novel hum
Abp62845	Human pol
Aay34555	Porphorym
Adc96594	E. faeciu
Aay34418	Porphorym
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Aau81198	Proteorho
Aau81186	Proteorho
Aau81196	Proteorho
Aau81197	Proteorho
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Aau81205	Proteorho
Aau81207	Proteorho
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Abi18903	A maize c
AAU82741	Amino aci
Adi63086	Human apo
ADI26121	Human pro
ADI26119	Human pro
AAE34042	WNT-6 pro
ADI26123	Human pro
ABU44266	Protein e
AAAB25242	Eucalyptu
ABB90392	Human pol
ADM25982	Hyperther
Adm19854	Protein e
Aay51953	Human Wnt
AAU59588	Human Wnt
AD002130	Human Wnt
AD002260	Human Wnt
AAr43664	Ornithine
AAr43663	Ornithine
Abp28640	Streptoco
Adg29859	Streptoco
Adg39857	Protein s
ABr524110	Protein r
AAr344333	E. coli c
AAr43202	Protein e
AAr15428	3-acetyl
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Aay75772	Neisseria
Abp79302	N. gonorr
ABp78899	Pseudomon
Abgi16917	Novel hum
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Abp79302	N. gonorr
ABp78899	





537	6	2.7	65	5	ABG36166	Abg36166 Human pep	610	6	2.7	93	5	AAE24063	Aae24063 Human pro
538	6	2.7	65	5	ABP33577	Abp33577 Human ORF	611	6	2.7	95	5	ABB53186	Abb53186 Human ORF
539	6	2.7	65	5	ADA36307	Ada36307 Acinetoba	612	6	2.7	96	4	AAO01972	Aao01972 Human pol
540	6	2.7	67	8	ABO57904	Abos7904 Human gen	613	6	2.7	96	7	ADG10451	Adg10451 Human STA
541	6	2.7	67	8	ADK48377	Adk48377 Streptoco	614	6	2.7	98	3	ABA40963	Aba40963 Human ORF
542	6	2.7	68	5	ABP00790	Abp00790 Human ORF	615	6	2.7	98	4	ABG20030	Abg20030 Novel hum
543	6	2.7	69	4	AAH87087	Aah87087 Human imm	616	6	2.7	98	5	ABP07408	Abp07408 Human ORF
544	6	2.7	69	5	ADK35332	Adk35332 Novel hum	617	6	2.7	98	5	ABP33599	Abp33599 Human ORF
545	6	2.7	70	4	ABB67356	Abb67356 Drosophil	618	6	2.7	98	6	ADA89550	Ada89550 Staphyloc
546	6	2.7	70	4	AAU42275	Aau42275 Propionib	619	6	2.7	99	4	ABB60177	Abb60177 Drosophil
547	6	2.7	70	5	ABP04252	Abp04252 Human ORF	620	6	2.7	100	3	AAQ27910	Aaq27910 Arabidops
548	6	2.7	70	5	ABP32158	Abp32158 Human ORF	621	6	2.7	104	3	AAQ33073	Aaq33073 Pinus rad
549	6	2.7	70	6	ABM38794	Abm38794 Propionib	622	6	2.7	105	4	AAU51248	Aau51248 Propionib
550	6	2.7	72	2	AAW46215	Aaw46215 Snake ven	623	6	2.7	105	6	ABM47767	Abm47767 Propionib
551	6	2.7	72	2	AAW50453	Aaw50453 Snake ven	624	6	2.7	105	8	ADG22735	Adg22735 Cyanophag
552	6	2.7	72	2	AAW50390	Aaw50390 Snake ven	625	6	2.7	105	8	ADJ67623	Adj67623 Human ova
553	6	2.7	72	3	AAW52490	Aaw52490 Helicobac	626	6	2.7	106	4	AAU16449	Aau16449 Human nov
554	6	2.7	72	5	ABU51911	Abu51911 Helicobac	627	6	2.7	106	4	ABG10653	Abg10653 Novel hum
555	6	2.7	72	7	ADC27598	Adc27598 Human col	628	6	2.7	106	6	ABU55518	Abu55518 Human nov
556	6	2.7	73	3	ABM33854	Abm33854 Human sec	629	6	2.7	106	7	ABO65359	Abos65359 Klebsiell
557	6	2.7	73	5	ABP08397	Abp08397 Human ORF	630	6	2.7	107	3	AAQ22587	Aaq22587 Zea mays
558	6	2.7	73	5	ABP68411	Abp68411 Human col	631	6	2.7	107	3	AAQ30481	Aaq30481 Arabidops
559	6	2.7	73	8	ADG22523	Adg22523 Cyanophag	632	6	2.7	107	4	AAO02476	Aao02476 Human pol
560	6	2.7	74	4	AAU51711	Aau51711 Propionib	633	6	2.7	107	4	ABM10453	Abm10453 Human cdn
561	6	2.7	74	6	ABM48230	Abm48230 Propionib	634	6	2.7	108	4	AAU19920	Aau19920 Novel hum
562	6	2.7	75	2	AAU02704	Aau02704 Human sec	635	6	2.7	108	4	AAU19920	Aau19920 Novel hum
563	6	2.7	75	2	ADA07383	Ada07383 Human sec	636	6	2.7	108	5	ABP08696	Abp08696 Human ORF
564	6	2.7	75	8	ADN41114	Adn41114 Novel hum	637	6	2.7	108	5	ABP67040	Abp67040 Human pol
565	6	2.7	76	4	AAU39175	Aau39175 Propionib	638	6	2.7	109	3	AAQ32803	Aaq32803 Zea mays
566	6	2.7	76	6	ABM35694	Abm35694 Propionib	639	6	2.7	109	5	ABP33441	Abp33441 Human ORF
567	6	2.7	77	5	ABP33252	Abp33252 Human ORF	640	6	2.7	110	4	ABG10199	Abg10199 Novel hum
568	6	2.7	78	2	AAU12864	Aau12864 Human 5'	641	6	2.7	110	5	ABP31234	Abp31234 Human pol
569	6	2.7	78	4	AAO13882	Aao13882 Human pol	642	6	2.7	110	6	ADB12327	Adb12327 Alloiocec
570	6	2.7	78	4	AAO13882	Aao13882 Human pol	643	6	2.7	111	7	ABO74597	Abos74597 Pseudomon
571	6	2.7	79	2	AAU73150	Aau73150 Rat amphi	644	6	2.7	113	2	AAQ39038	Aaq39038 M. tuberc
572	6	2.7	79	4	AAU51460	Aau51460 Propionib	645	6	2.7	113	2	AAQ39181	Aaq39181 M. tuberc
573	6	2.7	79	6	ABM47979	Abm47979 Propionib	646	6	2.7	114	2	AAQ63132	Aaq63132 Egr-1 tra
574	6	2.7	81	4	AAW23605	Aaw23605 Yeast EST	647	6	2.7	114	4	AAW74692	Aaw74692 Human pro
575	6	2.7	81	8	ADP29761	Adp29761 Human sec	648	6	2.7	114	4	ABU41031	Abu41031 Protein e
576	6	2.7	84	4	ABR03160	Abbr03160 Human mus	649	6	2.7	114	8	ADG22298	Adg22298 Cyanophag
577	6	2.7	84	4	ABG078733	Abg078733 Malignant	650	6	2.7	115	7	ADM05989	Adm05989 Human pro
578	6	2.7	84	6	ABU12454	Abu12454 Novel hum	651	6	2.7	116	5	ABP63703	Abp63703 Human ORF
579	6	2.7	84	8	ADJ28480	Adj28480 Human mus	652	6	2.7	116	7	ABO80121	Abos80121 Pseudomon
580	6	2.7	85	2	AAU75149	Aau75149 H. burton	653	6	2.7	117	3	AAU16741	Aau16741 Bacteriop
581	6	2.7	85	2	AAU11856	Aau11856 Human 5'	654	6	2.7	117	3	ABO68009	Abos68009 Pseudomon
582	6	2.7	85	4	AAU06264	Aau06264 Peptide #	655	6	2.7	118	2	AAQ39039	Aaq39039 M. tuberc
583	6	2.7	85	5	ABR40459	Abrr40459 Human sec	656	6	2.7	118	2	AAQ39182	Aaq39182 M. tuberc
584	6	2.7	85	5	ABR40538	Abrr40538 Human sec	657	6	2.7	118	4	AAU42494	Aau42494 Propionib
585	6	2.7	86	2	AAU12364	Aau12364 Human 5'	658	6	2.7	118	6	ABM39013	Abm39013 Propionib
586	6	2.7	86	4	AAW18310	Aaw18310 Peptide #	659	6	2.7	118	8	ADN47963	Adn47963 Thermococ
587	6	2.7	86	4	AAW70473	Aaw70473 Human bon	660	6	2.7	120	4	AAO05835	Aao05835 Human pol
588	6	2.7	86	4	AAU51972	Aau51972 Propionib	661	6	2.7	121	7	ADM04609	Adm04609 Human pro
589	6	2.7	86	5	AAU05916	Aau05916 Peptide #	662	6	2.7	121	8	ADJ34941	Adj34941 Mouse cyp
590	6	2.7	86	5	ABG40112	Abg40112 Human pep	663	6	2.7	122	2	AAQ65908	Aaq65908 Protein f
591	6	2.7	86	5	ABP63873	Abp63873 Human ORF	664	6	2.7	122	3	AAQ70479	Aaq70479 Momordica
592	6	2.7	86	5	ABP32391	Abp32391 Human ORF	665	6	2.7	122	3	AAQ35810	Aaq35810 Rice thio
593	6	2.7	86	6	ABM48491	Abm48491 Propionib	666	6	2.7	122	4	ABG21130	Abg21130 Novel hum
594	6	2.7	87	4	AAU61254	Aau61254 Murine IN	667	6	2.7	122	4	ABG20017	Abg20017 Novel hum
595	6	2.7	87	6	ABO32690	Abos32690 Secreted	668	6	2.7	122	5	ABP60740	Abp60740 Oryza sat
596	6	2.7	87	7	ABO32690	Abos32690 Secreted	669	6	2.7	122	7	ADG59274	Adg59274 Rice thio
597	6	2.7	87	7	ADF71536	Adf71536 Murine IN	670	6	2.7	123	4	AAE04251	Aae04251 Human gen
598	6	2.7	87	8	ADQ10354	Adq10354 Human pol	671	6	2.7	123	6	ABP81003	Abp81003 N. gonorr
599	6	2.7	88	3	AAQ12121	Aaq12121 Arabidops	672	6	2.7	123	6	ADA49705	Ada49705 Extracell
600	6	2.7	88	5	ABR09407	Abrr09407 Na/K aden	673	6	2.7	123	7	ADF06129	Adf06129 Bacterial
601	6	2.7	88	5	ABP32206	Abp32206 Human ORF	674	6	2.7	124	4	AAQ63670	Aaq63670 Human gas
602	6	2.7	89	6	ADB12329	Adb12329 Alloiocec	675	6	2.7	126	4	ABM69964	Abm69964 Drosophil
603	6	2.7	90	3	AAU08525	Aau08525 Protein e	676	6	2.7	126	4	AAU91808	Aau91808 Human imm
604	6	2.7	90	3	AAU783193	Aau783193 Transmemb	677	6	2.7	126	4	AAU19841	Aau19841 Human nov
605	6	2.7	90	6	ABU09828	Abu09828 Membrane	678	6	2.7	126	5	ABP48061	Abp48061 Human pol
606	6	2.7	90	6	ABU71875	Abu71875 S. livida	679	6	2.7	126	5	ADK36676	Adk36676 Novel hum
607	6	2.7	91	4	AAU47709	Aau47709 Propionib	680	6	2.7	126	7	ADC11023	Adc11023 Human pro
608	6	2.7	91	6	ABM44228	Abm44228 Propionib	681	6	2.7	127	6	ADA55529	Ada55529 Human pro
609	6	2.7	93	2	AAW14918	Aaw14918 Mouse thy	682	6	2.7	127	7	ABO79651	Abos79651 Pseudomon

683	6	2.7	127	8	ABO58976	Human gen	756	6	2.7	154	4	AAG99020	Human pro
684	6	2.7	128	5	AAE25744	Rice FT h	757	6	2.7	154	4	AAG62151	Human P71
685	6	2.7	129	6	ABU28362	Protein e	758	6	2.7	154	4	ABU71671	Prostate
686	6	2.7	130	3	AGG31210	Arabidops	759	6	2.7	154	5	ABR95240	Human P71
687	6	2.7	130	5	ADK36515	Novel hum	760	6	2.7	154	6	ABR54352	Prostate
688	6	2.7	130	6	ABU20461	Protein e	761	6	2.7	154	7	ADB13833	Human pro
689	6	2.7	131	4	AAO03407	Human pol	762	6	2.7	154	7	ADJ71667	Human uri
690	6	2.7	131	5	ABF42143	Human ova	763	6	2.7	154	7	ADG26249	Human pro
691	6	2.7	133	4	ABG15499	Novel hum	764	6	2.7	155	4	ABG23555	Novel hum
692	6	2.7	133	7	ADD27395	Human adi	765	6	2.7	157	3	ABR40295	Human ORF
693	6	2.7	134	5	ADK36720	Novel hum	766	6	2.7	157	4	ABR46404	H. pylori
694	6	2.7	136	4	ABG02009	Novel hum	767	6	2.7	157	5	ABP03553	Human ORF
695	6	2.7	136	4	ABG08231	Novel hum	768	6	2.7	157	6	ABM69753	Photorhab
696	6	2.7	136	4	ABG12929	Novel hum	769	6	2.7	158	2	ABM55582	H. pylori
697	6	2.7	136	4	ABG00455	Novel hum	770	6	2.7	158	3	AAG06296	Arabidops
698	6	2.7	136	5	ADK35665	Novel hum	771	6	2.7	158	3	AAG45578	Arabidops
699	6	2.7	136	7	ADC88878	Ribosomal	772	6	2.7	158	5	ABU05876	M. tuberc
700	6	2.7	136	7	ABO76663	Pseudomon	773	6	2.7	159	4	ABR52460	Escherich
701	6	2.7	137	4	ABG01981	Novel hum	774	6	2.7	159	7	ADM04312	Human pr
702	6	2.7	138	4	AAU42546	Propionib	775	6	2.7	160	2	AAV32009	Streptomy
703	6	2.7	138	4	AAU57401	Propionib	776	6	2.7	160	2	AAV32024	Streptomy
704	6	2.7	138	6	ABM39065	Propionib	777	6	2.7	160	3	AAU13037	Arabidops
705	6	2.7	138	6	ABM53920	Propionib	778	6	2.7	160	3	AAG30480	Arabidops
706	6	2.7	138	7	ABO73752	Pseudomon	779	6	2.7	160	5	ABP39482	Staphyloc
707	6	2.7	139	6	ABR47828	Human sec	780	6	2.7	160	5	ABP40009	Staphyloc
708	6	2.7	139	6	ABR00117	Human gen	781	6	2.7	160	5	ADD46877	Human pro
709	6	2.7	139	6	ABU30209	Protein e	782	6	2.7	160	7	ADD48616	Human pro
710	6	2.7	139	7	ADB91596	Human sec	783	6	2.7	160	7	ADF59446	Human pol
711	6	2.7	139	7	ADC74217	Human sec	784	6	2.7	160	8	ADI38323	Streptomy
712	6	2.7	139	8	ADK46570	Streptoco	785	6	2.7	160	8	ADI38338	S. illvida
713	6	2.7	140	2	AAV41321	Human sec	786	6	2.7	161	4	AAW01260	P7111 His
714	6	2.7	140	5	ABU05544	M. tuberc	787	6	2.7	161	4	AAU69905	Human pro
715	6	2.7	142	2	AAW36904	CD47 extr	788	6	2.7	161	4	ABU71796	Prostate
716	6	2.7	143	6	ABU06886	Maize SSI	789	6	2.7	161	5	ABR95365	P711P His
717	6	2.7	143	6	ABU06908	Maize SSI	790	6	2.7	161	5	ABR72313	Rat prote
718	6	2.7	144	4	ABG23549	Novel hum	791	6	2.7	161	5	AAU98434	Cadium-re
719	6	2.7	144	7	ADM04547	Human pro	792	6	2.7	161	6	ABR54477	Prostate
720	6	2.7	144	7	ADM25690	Hyperther	793	6	2.7	161	7	ADB14296	Human pro
721	6	2.7	145	3	AGG17094	Arabidops	794	6	2.7	161	7	ADG26712	Human pro
722	6	2.7	146	6	ABU06690	Maize SSI	795	6	2.7	162	4	ABG01980	Novel hum
723	6	2.7	146	6	ABU06699	Maize SSI	796	6	2.7	162	6	ABU35142	Protein e
724	6	2.7	147	3	AGU00228	Human sec	797	6	2.7	163	5	ABR50489	LDL recep
725	6	2.7	147	4	ABU52981	Human tes	798	6	2.7	163	5	ABF51387	Human MDD
726	6	2.7	147	7	ADC97454	E. faeciu	799	6	2.7	164	2	AAW24470	Human met
727	6	2.7	147	7	ABO71898	Pseudomon	800	6	2.7	164	2	AAW24470	Human met
728	6	2.7	147	7	ABO69933	Pseudomon	801	6	2.7	164	5	ABU51951	Helicobac
729	6	2.7	148	5	ABU85549	Clone #26	802	6	2.7	164	8	ADK16597	Nanoarcha
730	6	2.7	148	6	ABU56718	Lung canc	803	6	2.7	165	5	ABP28449	Streptoco
731	6	2.7	148	6	ABU69521	Human lun	804	6	2.7	165	6	ABM69855	Photorhab
732	6	2.7	148	6	ABU66424	Lung canc	805	6	2.7	166	2	AAW14568	Streptoco
733	6	2.7	148	7	ADH47330	Human lun	806	6	2.7	166	2	ABW02602	Bg8743c p
734	6	2.7	148	7	ADN39136	Cancer/an	807	6	2.7	167	5	ABR89382	Human pol
735	6	2.7	148	7	ADN39993	Cancer/an	808	6	2.7	167	6	AAV337872	Mycobacte
736	6	2.7	148	8	ADF91402	Human gas	809	6	2.7	168	2	AAV34973	Chlamydia
737	6	2.7	148	8	ADK70541	Respirato	810	6	2.7	168	7	ABO68641	Novel hum
738	6	2.7	150	3	AAE23821	Plasmid p	811	6	2.7	170	5	ABR40560	Pseudomon
739	6	2.7	150	4	AAG67497	Amino aci	812	6	2.7	170	6	ABP60347	Human inf
740	6	2.7	150	4	AAW47635	Human IAP	813	6	2.7	170	6	ABP23328	Protein e
741	6	2.7	150	5	ABG97812	Human sol	814	6	2.7	170	8	ADL04244	Human pro
742	6	2.7	150	5	ABG35315	Thrombopo	815	6	2.7	171	3	ABG21209	Novel hum
743	6	2.7	151	6	ABU26645	Protein e	816	6	2.7	171	4	ABG20156	Soybean F
744	6	2.7	152	3	AAV86288	Sinorhizo	817	6	2.7	172	5	AAE25737	Corn FT h
745	6	2.7	152	4	AAW84365	Human imm	818	6	2.7	172	5	AAE25737	Soybean F
746	6	2.7	152	4	AAW94187	Human pro	819	6	2.7	172	6	AAE25750	Soybean F
747	6	2.7	152	4	ABG17803	Novel hum	820	6	2.7	173	2	ABU27801	Protein e
748	6	2.7	152	5	ABR90042	Human pol	821	6	2.7	173	2	AAW37868	Human pro
749	6	2.7	152	6	ABP60346	Human inf	822	6	2.7	173	4	AAW60458	Human cel
750	6	2.7	152	8	ABO59325	Human gen	823	6	2.7	173	5	ABE19216	Novel hum
751	6	2.7	153	5	AAU81755	Partial m	824	6	2.7	173	5	ABR40413	Soybean F
752	6	2.7	154	3	AAW82020	Human imm	825	6	2.7	173	5	ABR40486	Human sec
753	6	2.7	154	4	AAW01135	Human pro	826	6	2.7	173	6	ABP59512	Human pro
754	6	2.7	154	4	AAU69780	Human pro	827	6	2.7	173	7	ADE09098	Novel pro
755	6	2.7	154	4	AAW74818	Prostate	828	6	2.7	174	2	AAW55599	H. pylori

829	6	2.7	174	4	AAB62812	Aab62812	E. canis	902	6	2.7	197	5	ABP29524	Abp29524	Streptoco
830	6	2.7	174	5	AAE25760	Aae25760	Rice FT h	903	6	2.7	197	5	ADK35940	Adk35940	Novel hum
831	6	2.7	174	5	AAE25734	Aae25734	Baleam pe	904	6	2.7	197	6	ABU22771	Abu22771	Protein e
832	6	2.7	174	7	ADP71344	Adp71344	ec3 Cytoc	905	6	2.7	197	6	ABU24403	Abu24403	Protein e
833	6	2.7	175	2	ADY48592	Aay48592	Human bre	906	6	2.7	198	3	ABU43446	Abu43446	Human can
834	6	2.7	175	3	AGG11266	Aag11266	Arabidops	907	6	2.7	199	3	AAE53625	Aae53625	Human col
836	6	2.7	176	5	AAE25747	Aae25747	Rice FT h	908	6	2.7	199	7	ADJ31211	Adj31211	Human nov
837	6	2.7	176	5	AAO22057	Aao22057	Hepatitis	909	6	2.7	200	7	ADJ11664	Adj11664	Rice prot
838	6	2.7	178	4	AAE01165	Aae01165	Human gen	910	6	2.7	201	5	ABP40714	Abp40714	Staphyloc
839	6	2.7	178	5	ABG64039	Abg64039	Human alb	911	6	2.7	201	6	ABU02229	Abu02229	S. pneumo
840	6	2.7	178	6	ADA57318	Ada57318	Human sec	912	6	2.7	201	6	AAO16181	Aao16181	Human pro
841	6	2.7	178	6	ABP60349	Abp60349	Human inf	913	6	2.7	201	6	ABP81452	Abp81452	Streptoco
842	6	2.7	178	7	ADC74392	Adc74392	Human sec	914	6	2.7	201	6	ABU46213	Abu46213	Protein e
843	6	2.7	178	7	ADD38012	Add38012	Human sec	915	6	2.7	202	2	AAAY36993	Aay36993	Protein i
844	6	2.7	178	8	ADL77304	Adl77304	Albumin f	916	6	2.7	202	4	AAO01029	Aao01029	Human pol
845	6	2.7	179	4	AAU51180	Aau51180	Propionib	917	6	2.7	202	7	ADM04796	Adm04796	Human pro
846	6	2.7	179	6	ABM47699	Abm47699	Protonib	918	6	2.7	202	7	ABO73967	Abu73967	Pseudomon
847	6	2.7	179	6	ABU46358	Abu46358	Protein e	919	6	2.7	202	7	ABO73967	Abu73967	Pseudomon
848	6	2.7	180	5	AAE25735	Aae25735	Garden ba	920	6	2.7	204	4	AAW79202	Aaw79202	Human pro
849	6	2.7	180	5	AAE25753	Aae25753	Wheat FT	921	6	2.7	205	6	ABM68516	Abm68516	Phototrab
850	6	2.7	181	6	ABR52927	AbR52927	Corn FT h	922	6	2.7	205	6	ABU06503	Abu06503	Maize S81
851	6	2.7	181	7	ADM62506	Adm62506	Disease t	923	6	2.7	206	3	ABO70947	Abu70947	Pseudomon
852	6	2.7	181	7	ADM05975	Adm05975	Human pro	924	6	2.7	206	4	AAW80186	Aaw80186	Human pro
853	6	2.7	181	7	ADL33676	Adl33676	Zinc fing	925	6	2.7	206	5	ADK34115	Adk34115	Novel hum
854	6	2.7	181	7	ABO73220	Abu73220	Pseudomon	926	6	2.7	206	7	ADC96248	Adc96248	E. faeciu
855	6	2.7	182	2	AAW55223	Aaw55223	H. pylori	927	6	2.7	207	4	AAW94772	Aaw94772	Human pro
856	6	2.7	182	3	AAW55223	Aaw55223	H. pylori	928	6	2.7	207	4	ABG08268	Abg08268	Novel hum
857	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	929	6	2.7	207	4	ABG08268	Abg08268	Novel hum
858	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	930	6	2.7	208	3	AAW66761	Aay66761	Membrane-
859	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	931	6	2.7	208	3	AAW66761	Aay66761	Membrane-
860	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	932	6	2.7	208	3	AAW66761	Aay66761	Membrane-
861	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	933	6	2.7	208	3	AAW66761	Aay66761	Membrane-
862	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	934	6	2.7	208	3	AAW66761	Aay66761	Membrane-
863	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	935	6	2.7	208	3	AAW66761	Aay66761	Membrane-
864	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	936	6	2.7	208	3	AAW66761	Aay66761	Membrane-
865	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	937	6	2.7	208	3	AAW66761	Aay66761	Membrane-
866	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	938	6	2.7	208	3	AAW66761	Aay66761	Membrane-
867	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	939	6	2.7	208	3	AAW66761	Aay66761	Membrane-
868	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	940	6	2.7	208	3	AAW66761	Aay66761	Membrane-
869	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	941	6	2.7	208	3	AAW66761	Aay66761	Membrane-
870	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	942	6	2.7	208	3	AAW66761	Aay66761	Membrane-
871	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	943	6	2.7	208	3	AAW66761	Aay66761	Membrane-
872	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	944	6	2.7	208	3	AAW66761	Aay66761	Membrane-
873	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	945	6	2.7	208	3	AAW66761	Aay66761	Membrane-
874	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	946	6	2.7	208	3	AAW66761	Aay66761	Membrane-
875	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	947	6	2.7	208	3	AAW66761	Aay66761	Membrane-
876	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	948	6	2.7	208	3	AAW66761	Aay66761	Membrane-
877	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	949	6	2.7	208	3	AAW66761	Aay66761	Membrane-
878	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	950	6	2.7	208	3	AAW66761	Aay66761	Membrane-
879	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	951	6	2.7	208	3	AAW66761	Aay66761	Membrane-
880	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	952	6	2.7	208	3	AAW66761	Aay66761	Membrane-
881	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	953	6	2.7	208	3	AAW66761	Aay66761	Membrane-
882	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	954	6	2.7	208	3	AAW66761	Aay66761	Membrane-
883	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	955	6	2.7	208	3	AAW66761	Aay66761	Membrane-
884	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	956	6	2.7	208	3	AAW66761	Aay66761	Membrane-
885	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	957	6	2.7	208	3	AAW66761	Aay66761	Membrane-
886	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	958	6	2.7	208	3	AAW66761	Aay66761	Membrane-
887	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	959	6	2.7	208	3	AAW66761	Aay66761	Membrane-
888	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	960	6	2.7	208	3	AAW66761	Aay66761	Membrane-
889	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	961	6	2.7	208	3	AAW66761	Aay66761	Membrane-
890	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	962	6	2.7	208	3	AAW66761	Aay66761	Membrane-
891	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	963	6	2.7	208	3	AAW66761	Aay66761	Membrane-
892	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	964	6	2.7	208	3	AAW66761	Aay66761	Membrane-
893	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	965	6	2.7	208	3	AAW66761	Aay66761	Membrane-
894	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	966	6	2.7	208	3	AAW66761	Aay66761	Membrane-
895	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	967	6	2.7	208	3	AAW66761	Aay66761	Membrane-
896	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	968	6	2.7	208	3	AAW66761	Aay66761	Membrane-
897	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	969	6	2.7	208	3	AAW66761	Aay66761	Membrane-
898	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	970	6	2.7	208	3	AAW66761	Aay66761	Membrane-
899	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	971	6	2.7	208	3	AAW66761	Aay66761	Membrane-
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901	6	2.7	183	5	AAW55223	Aaw55223	H. pylori	973	6	2.7	208	3	AAW66761	Aay66761	Membrane-
								974	6	2.7	208	3	AAW66761	Aay66761	Membrane-

975	6	2.7	208	6	ADB19518	Novel hum	1048	6	2.7	208	7	ADB66722	Novel hum
976	6	2.7	208	6	ADB28059	Human PRO	1049	6	2.7	208	7	ADB89802	Human PRO
977	6	2.7	208	6	ADB86538	Novel hum	1050	6	2.7	208	7	ADB90534	Human PRO
978	6	2.7	208	6	ADB16102	Human PRO	1051	6	2.7	208	7	ADB39635	Novel hum
979	6	2.7	208	6	ADA37927	Human PRO	1052	6	2.7	208	7	ADB47258	Novel hum
980	6	2.7	208	6	ADA47888	Human PRO	1053	6	2.7	208	7	ADB86865	Human PRO
981	6	2.7	208	6	ADA21613	Human PRO	1054	6	2.7	208	7	ADB77470	Novel hum
982	6	2.7	208	6	ADA10400	Human PRO	1055	6	2.7	208	7	ADB34627	Human PRO
983	6	2.7	208	6	ADA67683	Human PRO	1056	6	2.7	208	7	ADB35731	Human PRO
984	6	2.7	208	6	ADB30690	Human PRO	1057	6	2.7	208	7	ADB34075	Human PRO
985	6	2.7	208	6	ADA85986	Novel hum	1058	6	2.7	208	7	ADB35179	Human PRO
986	6	2.7	208	6	ADA17944	Human PRO	1059	6	2.7	208	7	ADB36283	Human PRO
987	6	2.7	208	6	ADA97198	Human PRO	1060	6	2.7	208	7	ADB46678	Novel hum
988	6	2.7	208	6	ADA79502	Human PRO	1061	6	2.7	208	7	ADC57896	Human PRO
989	6	2.7	208	6	ADA87641	Novel hum	1062	6	2.7	208	7	ADC55260	Human PRO
990	6	2.7	208	6	ADB16843	Human PRO	1063	6	2.7	208	7	ADC12127	Human PRO
991	6	2.7	208	6	ADA28052	Human PRO	1064	6	2.7	208	7	ADC56549	Human PRO
992	6	2.7	208	6	ADA91935	Novel hum	1065	6	2.7	208	7	ADC07604	Human PRO
993	6	2.7	208	6	ADB14998	Human PRO	1066	6	2.7	208	7	ADC11594	Human PRO
994	6	2.7	208	6	ADB18959	Novel hum	1067	6	2.7	208	7	ADC50551	Novel hum
995	6	2.7	208	6	ADA94174	Human PRO	1068	6	2.7	208	7	ADC72098	Novel hum
996	6	2.7	208	6	ADB20070	Novel hum	1069	6	2.7	208	7	ADC60077	Novel hum
997	6	2.7	208	6	ADB13382	Human PRO	1070	6	2.7	208	7	ADC53084	Novel hum
998	6	2.7	208	6	ABO43403	Novel hum	1071	6	2.7	208	7	ADC57438	Novel hum
999	6	2.7	208	6	ADA94632	Human PRO	1072	6	2.7	208	7	ADC60629	Novel hum
1000	6	2.7	208	6	ADA74636	Human PRO	1073	6	2.7	208	7	ADC51104	Novel hum
1001	6	2.7	208	6	ADB24869	Human PRO	1074	6	2.7	208	7	ADC65631	Human PRO
1002	6	2.7	208	6	ADA82393	Human PRO	1075	6	2.7	208	7	ADC54729	Novel hum
1003	6	2.7	208	6	ADA75356	Human PRO	1076	6	2.7	208	7	ADC53690	Novel hum
1004	6	2.7	208	6	ADA85434	Novel hum	1077	6	2.7	208	7	ADC59213	Novel hum
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1007	6	2.7	208	6	ADA80666	Human PRO	1080	6	2.7	208	7	ADC14716	Novel hum
1008	6	2.7	208	6	ADA75908	Human PRO	1081	6	2.7	208	7	ADD08248	Novel hum
1009	6	2.7	208	6	ADA38857	Human PRO	1082	6	2.7	208	7	ADD03335	Novel hum
1010	6	2.7	208	6	ADA47133	Human PRO	1083	6	2.7	208	7	ADC90327	Novel hum
1011	6	2.7	208	6	ADB25429	Human PRO	1084	6	2.7	208	7	ADC82073	Human PRO
1012	6	2.7	208	6	ADA93605	Human PRO	1085	6	2.7	208	7	ADC69746	Human PRO
1013	6	2.7	208	6	ADB26955	Human PRO	1086	6	2.7	208	7	ADC48635	Human PRO
1014	6	2.7	208	6	ADB31242	Human PRO	1087	6	2.7	208	7	ADD10164	Human PRO
1015	6	2.7	208	6	ADA92978	Human PRO	1088	6	2.7	208	7	ADD07715	Novel hum
1016	6	2.7	208	6	ADA61170	Homo sapi	1089	6	2.7	208	7	ADD04739	Novel hum
1017	6	2.7	208	6	ADB24317	Human PRO	1090	6	2.7	208	7	ADC82606	Human PRO
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1019	6	2.7	208	6	ADA81218	Human PRO	1092	6	2.7	208	7	ADD11202	Human PRO
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1021	6	2.7	208	6	ADB26403	Human PRO	1094	6	2.7	208	7	ADD08786	Novel hum
1022	6	2.7	208	6	ADB21888	Novel hum	1095	6	2.7	208	7	ADC80143	Novel hum
1023	6	2.7	208	7	ADA77667	Human PRO	1096	6	2.7	208	7	ADD07035	Novel hum
1024	6	2.7	208	7	ADB18407	Human PRO	1097	6	2.7	208	7	ADC09612	Human PRO
1025	6	2.7	208	7	ADA87090	Novel hum	1098	6	2.7	208	7	ADC83282	Human PRO
1026	6	2.7	208	7	ADA88193	Novel hum	1099	6	2.7	208	7	ADD41325	Novel hum
1027	6	2.7	208	7	ADA46581	Novel hum	1100	6	2.7	208	7	ADD52464	Human PRO
1028	6	2.7	208	7	ADB28611	Human PRO	1101	6	2.7	208	7	ADD53204	Human PRO
1029	6	2.7	208	7	ADB29163	Human PRO	1102	6	2.7	208	7	ADD53756	Novel hum
1030	6	2.7	208	7	ABO53236	Human PRO	1103	6	2.7	208	7	ADD55389	Human PRO
1031	6	2.7	208	7	ADA77115	Human PRO	1104	6	2.7	208	7	ADD56347	Human PRO
1032	6	2.7	208	7	ADA22539	Human PRO	1105	6	2.7	208	7	ADD51912	Human PRO
1033	6	2.7	208	7	ADA88745	Novel hum	1106	6	2.7	208	7	ADD02711	Human PRO
1034	6	2.7	208	7	ADA97750	Human PRO	1107	6	2.7	208	7	ADD02145	Human PRO
1035	6	2.7	208	7	ADB27507	Human PRO	1108	6	2.7	208	7	ADD54327	Novel hum
1036	6	2.7	208	7	ADB22440	Novel hum	1109	6	2.7	208	7	ADD54785	Human PRO
1037	6	2.7	208	7	ABO22606	Human PRO	1110	6	2.7	208	7	ADD92644	Human PRO
1038	6	2.7	208	7	ADA06705	Human PRO	1111	6	2.7	208	7	ADD91540	Human PRO
1039	6	2.7	208	7	ADA39398	Human PRO	1112	6	2.7	208	7	ADB04154	Human PRO
1040	6	2.7	208	7	ADA67131	Human PRO	1113	6	2.7	208	7	ADB26939	Novel hum
1041	6	2.7	208	7	ADB22992	Human PRO	1114	6	2.7	208	7	ADB263451	Novel hum
1042	6	2.7	208	7	ADB23765	Human PRO	1115	6	2.7	208	7	ADB22383	Human PRO
1043	6	2.7	208	7	ADA92487	Novel hum	1116	6	2.7	208	7	ADD79607	Human PRO
1044	6	2.7	208	7	ADB15550	Human PRO	1117	6	2.7	208	7	ADB42143	Human PRO
1045	6	2.7	208	7	ADB38802	Novel hum	1118	6	2.7	208	7	ADB17960	Human PRO
1046	6	2.7	208	7	ADB96424	Human PRO	1119	6	2.7	208	7	ADB20292	Human PRO
1047	6	2.7	208	7	ADB38250	Novel hum	1120	6	2.7	208	7	ADB33555	Novel hum

1121	6	2.7	208	7	ADP34107	Novel hum	1194	6	2.7	208	8	ADG15686	Human PRO
1122	6	2.7	208	7	ADP80159	Human PRO	1195	6	2.7	208	8	ADP97084	Human PRO
1123	6	2.7	208	7	ADG93196	Human PRO	1196	6	2.7	208	8	ADG06269	Human PRO
1124	6	2.7	208	7	ADL19616	Human PRO	1197	6	2.7	208	8	ADG23853	Novel hum
1125	6	2.7	208	7	ADL19064	Human PRO	1198	6	2.7	208	8	ADG04142	Human PRO
1126	6	2.7	208	7	ADG34360	Human PRO	1199	6	2.7	208	8	ADG25043	Novel hum
1127	6	2.7	208	7	ADG96049	Human PRO	1200	6	2.7	208	8	ADG07340	Novel hum
1128	6	2.7	208	7	ADG22935	Human PRO	1201	6	2.7	208	8	ADG07892	Novel hum
1129	6	2.7	208	7	ADG79053	Human PRO	1202	6	2.7	208	8	ADG55387	Novel hum
1130	6	2.7	208	7	ADG26406	Novel hum	1203	6	2.7	208	8	ADG61051	Novel hum
1131	6	2.7	208	7	ADG33303	Novel hum	1204	6	2.7	208	8	ADG62155	Novel hum
1132	6	2.7	208	7	ADG42895	Human PRO	1205	6	2.7	208	8	ADG82356	Human PRO
1133	6	2.7	208	7	ADG80711	Human PRO	1206	6	2.7	208	8	ADG57595	Novel hum
1134	6	2.7	208	7	ADG89739	Human PRO	1207	6	2.7	208	8	ADG57043	Novel hum
1135	6	2.7	208	7	ADG41023	Human PRO	1208	6	2.7	208	8	ADG55939	Novel hum
1136	6	2.7	208	7	ADG04822	Human PRO	1209	6	2.7	208	8	ADG58699	Novel hum
1137	6	2.7	208	7	ADG60236	Human PRO	1210	6	2.7	208	8	ADG71065	Novel hum
1138	6	2.7	208	7	ADG92951	Human PRO	1211	6	2.7	208	8	ADG58147	Novel hum
1139	6	2.7	208	7	ADG67343	Human PRO	1212	6	2.7	208	8	ADG53731	Novel hum
1140	6	2.7	208	7	ADG21660	Novel hum	1213	6	2.7	208	8	ADG71617	Novel hum
1141	6	2.7	208	7	ADG23301	Novel hum	1214	6	2.7	208	8	ADG81804	Human PRO
1142	6	2.7	208	7	ADG97636	Human PRO	1215	6	2.7	208	8	ADH19662	Human PRO
1143	6	2.7	208	7	ADG80700	Human PRO	1216	6	2.7	208	8	ADH30766	Human PRO
1144	6	2.7	208	7	ADG80148	Human PRO	1217	6	2.7	208	8	ADH12133	Novel hum
1145	6	2.7	208	7	ADH55440	Novel hum	1218	6	2.7	208	8	ADG52555	Novel hum
1146	6	2.7	208	7	ADH55992	Novel hum	1219	6	2.7	208	8	ADG54283	Novel hum
1147	6	2.7	208	7	ADH35597	Human PRO	1220	6	2.7	208	8	ADG81252	Human PRO
1148	6	2.7	208	7	ADL64211	Novel hum	1221	6	2.7	208	8	ADG56491	Novel hum
1149	6	2.7	208	7	ADL65160	Novel hum	1222	6	2.7	208	8	ADH12757	Novel hum
1150	6	2.7	208	7	ADL63659	Novel hum	1223	6	2.7	208	8	ADH21155	Human PRO
1151	6	2.7	208	7	ADH82073	Novel hum	1224	6	2.7	208	8	ADG61603	Novel hum
1152	6	2.7	208	7	ADH00090	Novel hum	1225	6	2.7	208	8	ADH20195	Human PRO
1153	6	2.7	208	7	ADH81521	Novel hum	1226	6	2.7	208	8	ADH28690	Human PRO
1154	6	2.7	208	7	ADH82690	Novel hum	1227	6	2.7	208	8	ADG54835	Novel hum
1155	6	2.7	208	7	ADN16089	Novel hum	1228	6	2.7	208	8	ADG59875	Novel hum
1156	6	2.7	208	7	ADN16718	Novel hum	1229	6	2.7	208	8	ADH18299	Human PRO
1157	6	2.7	208	7	ADN15537	Novel hum	1230	6	2.7	208	8	ADG10042	Novel hum
1158	6	2.7	208	7	ADN14985	Novel hum	1231	6	2.7	208	8	ADH15513	Novel hum
1159	6	2.7	208	8	ADG81247	Novel hum	1232	6	2.7	208	8	ADG09390	Novel hum
1160	6	2.7	208	8	ADG76695	Human PRO	1233	6	2.7	208	8	ADH14845	Novel hum
1161	6	2.7	208	8	ADG88059	Human PRO	1234	6	2.7	208	8	ADH18440	Novel hum
1162	6	2.7	208	8	ADG86463	Human PRO	1235	6	2.7	208	8	ADJ63721	Novel hum
1163	6	2.7	208	8	ADG75911	Human PRO	1236	6	2.7	208	8	ADL77250	Albumin f
1164	6	2.7	208	8	ADG23487	Human PRO	1237	6	2.7	208	8	ADL77251	Albumin f
1165	6	2.7	208	8	ADG24039	Human PRO	1238	6	2.7	208	8	ADL77252	Albumin f
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1167	6	2.7	208	8	ADG87507	Human PRO	1240	6	2.7	208	8	ADL78763	Albumin f
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1170	6	2.7	208	8	ADG88821	Human PRO	1243	6	2.7	208	8	ADM27874	Human PRO
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1172	6	2.7	208	8	ADG91252	Human PRO	1245	6	2.7	208	8	ADM28460	Human PRO
1173	6	2.7	208	8	ADG35542	Human PRO	1246	6	2.7	208	8	ADP07778	Human PRO
1174	6	2.7	208	8	ADG95393	Human PRO	1247	6	2.7	208	8	ADP74722	Human PRO
1175	6	2.7	208	8	ADG93503	Human PRO	1248	6	2.7	209	4	AAE04219	Human PRO
1176	6	2.7	208	8	ADG35084	Human PRO	1249	6	2.7	209	5	ABG64489	Human PRO
1177	6	2.7	208	8	ADG92399	Novel hum	1250	6	2.7	209	7	ADL33670	Zinc fing
1178	6	2.7	208	8	ADG90700	Human PRO	1251	6	2.7	209	7	ADL33671	Zinc fing
1179	6	2.7	208	8	ADG91847	Novel hum	1252	6	2.7	209	8	ADL77756	Albumin f
1180	6	2.7	208	8	ADG11792	Human PRO	1253	6	2.7	211	7	ADL33678	Zinc fing
1181	6	2.7	208	8	ADG02426	Human PRO	1254	6	2.7	212	7	ABO83671	Pseudomon
1182	6	2.7	208	8	ADG22212	Novel hum	1255	6	2.7	213	4	ABW75328	Gene 44 h
1183	6	2.7	208	8	ADG20282	Human PRO	1256	6	2.7	213	5	ABW72307	Rat prote
1184	6	2.7	208	8	ADG98188	Human PRO	1257	6	2.7	213	7	ADL33672	Zinc fing
1185	6	2.7	208	8	ADG24405	Novel hum	1258	6	2.7	214	3	AAV87351	Human sig
1186	6	2.7	208	8	ADG98759	Human PRO	1259	6	2.7	214	3	AAV70760	Human bet
1187	6	2.7	208	8	ADG03590	Human PRO	1260	6	2.7	214	7	ADH64587	Human PRO
1188	6	2.7	208	8	ADG99311	Human PRO	1261	6	2.7	214	7	ADL63052	Human apo
1189	6	2.7	208	8	ADG16896	Human PRO	1262	6	2.7	216	4	AAH63668	Human gas
1190	6	2.7	208	8	ADG05355	Human PRO	1263	6	2.7	216	4	AAH71504	Human oif
1191	6	2.7	208	8	ADG19622	Human PRO	1264	6	2.7	217	6	ABW68860	Phototrab
1192	6	2.7	208	8	ADG13459	Human PRO	1265	6	2.7	218	2	AAV29946	Zea maye
1193	6	2.7	208	8	ADG08516	Novel hum	1266	6	2.7	218	4	AAU47094	Propionib

1267	6	2.7	218	4	AAG89825	Aag89825 C glutami	1340	6	2.7	245	3	AAG21662	Aag21662 Arabidops
1268	6	2.7	218	5	AAE14627	Aae14627 Corynebac	1341	6	2.7	245	4	ABG16181	Abg16181 Novel hum
1269	6	2.7	218	6	ABW43613	Abw43613 Propionib	1342	6	2.7	245	7	ADP05921	Adp05921 Bacterial
1270	6	2.7	219	4	ABE62998	AbE62998 Drosophil	1343	6	2.7	245	7	ABO67573	AbO67573 Klebsiell
1271	6	2.7	219	6	ABU31698	Abu31698 Protein e	1344	6	2.7	246	5	AAU96224	Aau96224 Human sec
1272	6	2.7	219	6	ABU31939	Abu31939 Protein e	1345	6	2.7	246	5	AAU96191	Aau96191 Human alb
1273	6	2.7	219	7	ABO79482	AbO79482 Pseudomon	1346	6	2.7	246	5	ABG64799	AbG64799 Human alb
1274	6	2.7	219	7	ABO77346	AbO77346 Pseudomon	1347	6	2.7	246	6	ADA48678	Ada48678 Rice prot
1275	6	2.7	221	4	AAU57714	Aau57714 Propionib	1348	6	2.7	246	8	ADL78066	Adl78066 Albumin f
1276	6	2.7	221	6	ABM54233	Abm54233 Propionib	1349	6	2.7	247	4	AAW79297	Aaw79297 Neisseria
1277	6	2.7	221	6	ABU23975	Abu23975 Protein e	1350	6	2.7	247	4	AAU21319	Aau21319 Human nov
1278	6	2.7	223	3	AAy96668	Aay96668 Murine ol	1351	6	2.7	247	4	ABG04071	Abg04071 Novel hum
1279	6	2.7	223	3	AAy96670	Aay96670 Murine ol	1352	6	2.7	248	7	ADD27618	Add27618 Human adi
1280	6	2.7	223	3	AAy96666	Aay96666 Murine ol	1353	6	2.7	249	7	ABO83487	AbO83487 Pseudomon
1281	6	2.7	223	6	ABU67246	Abu67246 Mouse odo	1354	6	2.7	251	3	AAE21538	Aae21538 Arabidops
1282	6	2.7	223	6	ABU67248	Abu67248 Mouse odo	1355	6	2.7	252	4	AAU24603	Aau24603 Human olf
1283	6	2.7	223	6	ABU67250	Abu67250 Mouse odo	1356	6	2.7	252	8	ADM48129	Adm48129 Polypepti
1284	6	2.7	223	6	ADB10518	Adb10518 Alloiocec	1357	6	2.7	253	3	AAAG60561	AaG60561 Arabidops
1285	6	2.7	223	7	ADL33812	Adl33812 Murine ol	1358	6	2.7	253	4	AAAG78197	AaG78197 Human oct
1286	6	2.7	223	7	ADL33808	Adl33808 Murine ol	1359	6	2.7	253	6	ABU23400	Abu23400 Protein e
1287	6	2.7	223	7	ADL33804	Adl33804 Murine ol	1360	6	2.7	253	7	ABO75817	AbO75817 Pseudomon
1288	6	2.7	223	7	ADL72406	Adl72406 Cotton lo	1361	6	2.7	254	4	AAW40700	Aaw40700 Human pol
1289	6	2.7	223	7	ADL93472	Adl93472 Partial m	1362	6	2.7	254	4	ABG11543	Abg11543 Novel hum
1290	6	2.7	223	7	ADL93468	Adl93468 Partial m	1363	6	2.7	255	2	AAW53869	Aaw53869 Gravin po
1291	6	2.7	223	7	ADL93476	Adl93476 Partial m	1364	6	2.7	255	3	AAAB18409	AaB18409 Recombina
1292	6	2.7	224	8	ADM42833	Adm42833 Murine od	1365	6	2.7	255	6	ABU093323	AbU093323 Human MAP
1293	6	2.7	224	3	AB43573	Ab43573 Human can	1366	6	2.7	256	7	ABO69301	AbO69301 Pseudomon
1294	6	2.7	224	3	AAAG06295	Aag06295 Arabidops	1367	6	2.7	258	6	ABU20044	Abu20044 Protein e
1295	6	2.7	224	3	AAAG45577	Aag45577 Arabidops	1368	6	2.7	259	6	ADA48258	Ada48258 Rice prot
1296	6	2.7	224	8	ADN74029	Adn74029 Thale cre	1369	6	2.7	260	7	ABO82379	AbO82379 Pseudomon
1297	6	2.7	226	6	ABU75118	Abu75118 Human col	1370	6	2.7	261	4	ABU53308	AbU53308 Human tes
1298	6	2.7	226	6	ABU21610	Abu21610 Protein e	1371	6	2.7	261	6	ABU21500	Abu21500 Protein e
1299	6	2.7	226	7	ADC94088	Adc94088 E. faeciu	1372	6	2.7	261	6	ADA35267	Ada35267 Acinetoba
1300	6	2.7	227	6	ABU50478	Abu50478 Protein e	1373	6	2.7	262	3	AAE11265	Aae11265 Arabidops
1301	6	2.7	227	7	ABO76631	AbO76631 Pseudomon	1374	6	2.7	262	4	AAU49004	Aau49004 Propionib
1302	6	2.7	229	5	ABB54818	Abb54818 Lactococc	1375	6	2.7	262	6	ABM45523	Abm45523 Propionib
1303	6	2.7	230	8	ADJ48716	Adj48716 Oil -assoc	1376	6	2.7	262	7	ADC79322	AdC79322 Human G p
1304	6	2.7	231	4	AAW79878	Aaw79878 Human pro	1377	6	2.7	262	7	ABO77771	AbO77771 Pseudomon
1305	6	2.7	231	7	ABO83444	AbO83444 Pseudomon	1378	6	2.7	263	3	AAAB56890	AaB56890 Human pro
1306	6	2.7	233	2	AAE64327	Aae64327 HSV L/ST	1379	6	2.7	263	5	ABP61132	AbP61132 Human GPC
1307	6	2.7	233	3	AAE21663	Aae21663 Arabidops	1380	6	2.7	263	7	ADC86267	AdC86267 Human GPC
1308	6	2.7	233	6	ADA32841	Ada32841 Acinetoba	1381	6	2.7	264	2	AAW24489	Aaw24489 Solanum t
1309	6	2.7	234	4	ABB63794	Abb63794 Drosophil	1382	6	2.7	264	2	AAW12716	Aaw12716 Phla gene
1310	6	2.7	235	4	ABB64192	Abb64192 Drosophil	1383	6	2.7	264	7	ADJ71793	Adj71793 Human son
1311	6	2.7	235	5	ABR04663	AbR04663 Rice ethy	1384	6	2.7	265	3	AAAG40435	AaG40435 Arabidops
1312	6	2.7	235	5	ABU05899	Abu05899 M. tuberc	1385	6	2.7	266	5	ABP53259	AbP53259 Human MDD
1313	6	2.7	236	6	ABU00277	Abu00277 Human nov	1386	6	2.7	266	8	ADL06012	Adl06012 M. catar
1314	6	2.7	237	2	AAW23085	Aaw23085 Microscil	1387	6	2.7	267	4	AAU16045	Aau16045 Human nov
1315	6	2.7	237	4	AAU35371	Aau35371 Haemophil	1388	6	2.7	267	4	ABB67140	Abb67140 Drosophil
1316	6	2.7	237	4	AAAB93343	Aab93343 Human pro	1389	6	2.7	267	6	ABU55114	Abu55114 Human nov
1317	6	2.7	237	4	AAAB88514	Aab88514 Haemophil	1390	6	2.7	268	3	AAAG60560	AaG60560 Arabidops
1318	6	2.7	237	5	AAU91445	Aau91445 Haemophil	1391	6	2.7	268	7	ADH88090	Adh88090 Enterococ
1319	6	2.7	237	7	ABU30151	Abu30151 Protein e	1392	6	2.7	268	7	ABO70365	AbO70365 Pseudomon
1320	6	2.7	237	7	ADF07031	Adf07031 Bacterial	1393	6	2.7	268	7	ABO70850	AbO70850 Pseudomon
1321	6	2.7	238	2	AAAR93554	Aar93554 Monoclonona	1394	6	2.7	269	7	ADC96055	AdC96055 E. faeciu
1322	6	2.7	238	5	AAU93061	Aau93061 Arabidops	1395	6	2.7	270	3	AAAG60559	AaG60559 Arabidops
1323	6	2.7	238	7	ADD30031	Add30031 Plant yle	1396	6	2.7	270	7	ADJ71798	Adj71798 Human son
1324	6	2.7	238	8	ADL44105	Adl44105 Plant tra	1397	6	2.7	271	5	AAE16175	Aae16175 Human G-p
1325	6	2.7	241	8	ADL61441	Adl61441 A. thalia	1398	6	2.7	271	5	ABB91243	Abb91243 Herbicida
1326	6	2.7	240	8	ADMO2415	Adm02415 Thalecres	1399	6	2.7	273	2	AAW29773	Aaw29773 Malassezi
1327	6	2.7	240	4	AAAG82439	Aag82439 S. epider	1400	6	2.7	274	4	AAAG90898	AaG90898 C Glutami
1328	6	2.7	240	4	AAAG93006	Aag93006 C glutami	1401	6	2.7	274	5	ABB54418	Abb54418 Lactococc
1329	6	2.7	240	5	ABR49440	AbR49440 Listeria	1402	6	2.7	274	7	ABO60826	AbO60826 Klebsiell
1330	6	2.7	241	6	ABR43064	AbR43064 Human CRH	1403	6	2.7	275	4	AAW78894	Aaw78894 Human pro
1331	6	2.7	241	4	ABB70024	Abb70024 Drosophil	1404	6	2.7	275	4	ABB09061	Abb09061 Thermus c
1332	6	2.7	241	4	AAU31108	Aau31108 Novel hum	1405	6	2.7	275	4	ABG25380	AbG25380 Novel hum
1333	6	2.7	242	7	ADD26807	Add26807 Human adi	1406	6	2.7	275	5	AAU76689	Aau76689 Synthetic
1334	6	2.7	243	2	AAAR34705	Aar34705 JSCI prec	1407	6	2.7	275	5	ABP26228	AbP26228 Streptoco
1335	6	2.7	243	2	AAW73161	Aaw73161 Rat amphi	1408	6	2.7	276	4	AAAG91765	AaG91765 C Glutami
1336	6	2.7	243	7	ADD47254	Add47254 Rat prote	1409	6	2.7	276	4	AAAG26227	AaG26227 Streptoco
1337	6	2.7	243	7	ADD47250	Add47250 Rat prote	1410	6	2.7	277	3	AAAG21708	AaG21708 Arabidops
1338	6	2.7	244	7	ADF06754	Adf06754 Bacterial	1411	6	2.7	277	5	ADK34638	Adk34638 Novel hum
1339	6	2.7	245	3	AAAG13035	Aag13035 Arabidops	1412	6	2.7	277	7	ADD13747	Add13747 C. glutam

1413	6	2.7	277	7	AD172402	Ad172402	Sunflower
1414	6	2.7	277	8	ADM41476	Adm41476	Tall fesc
1415	6	2.7	277	8	ADM41477	Adm41477	Perennial
1416	6	2.7	278	7	AY85899	Ay85899	S. pneumo
1417	6	2.7	278	7	ADM26329	Adm26329	Hyparther
1418	6	2.7	278	7	ABO68113	AbO68113	Pseudomon
1419	6	2.7	280	3	AG45576	Aag45576	Arabidops
1420	6	2.7	280	3	AG06294	Aag06294	Arabidops
1421	6	2.7	280	3	AG33132	Aag33132	Zea mays
1422	6	2.7	280	7	ABM74361	Abm74361	DNA clone
1423	6	2.7	281	5	ABB47749	Abb47749	Listeria
1424	6	2.7	281	8	ADM41483	Adm41483	Perennial
1425	6	2.7	282	4	AB30552	Ab30552	Amino aci
1426	6	2.7	283	3	AG06713	Aag06713	Arabidops
1427	6	2.7	283	3	ABO6898	AbO6898	Pseudomon
1428	6	2.7	284	3	AG53425	Aag53425	Arabidops
1429	6	2.7	284	3	AG09175	Aag09175	Arabidops
1430	6	2.7	284	3	AG24663	Aag24663	Arabidops
1431	6	2.7	284	3	AG34843	Aag34843	Arabidops
1432	6	2.7	284	4	AB69186	Ab69186	Human HIS
1433	6	2.7	285	4	AB92683	Ab92683	Human pro
1434	6	2.7	286	8	ADN03680	Adn03680	Antipsori
1435	6	2.7	287	7	ADP60594	Adp60594	Human con
1436	6	2.7	287	8	ADN72833	Adn72833	Thale cre
1437	6	2.7	289	2	AAR23623	Aar23623	Tox2a gen
1438	6	2.7	289	2	Aaw56745	Aaw56745	Insect-sp
1439	6	2.7	289	3	AG24818	Aag24818	Arabidops
1440	6	2.7	289	3	AG21537	Aag21537	Arabidops
1441	6	2.7	289	4	AAE02823	Aae02823	Pyenotes
1442	6	2.7	289	6	ABU31488	Abu31488	Protein e
1443	6	2.7	289	7	ABM73655	Abm73655	DNA clone
1444	6	2.7	290	7	ADM04318	Adm04318	Human pro
1445	6	2.7	291	2	AAR23622	Aar23622	Tox34 gen
1446	6	2.7	291	2	AAW19987	Aaw19987	Pyenotes
1447	6	2.7	291	2	AAW56744	Aaw56744	Insect-sp
1448	6	2.7	291	4	AAE02822	Aae02822	Pyenotes
1449	6	2.7	292	4	AB54376	Ab54376	Human pan
1450	6	2.7	293	3	AG33131	Aag33131	Zea mays
1451	6	2.7	293	3	AG21536	Aag21536	Arabidops
1452	6	2.7	293	4	AG89898	Aag89898	C Glutami
1453	6	2.7	293	7	AD863249	Ad863249	Human pro
1454	6	2.7	293	7	AD863245	Ad863245	Human pro
1455	6	2.7	293	7	AD165925	Ad165925	C. glutam
1456	6	2.7	294	4	AB62147	Ab62147	P. falcip
1457	6	2.7	294	4	AB10474	Ab10474	Human cDN
1458	6	2.7	294	4	AB10550	Ab10550	Human pol
1459	6	2.7	294	5	AB27281	Abp27281	Streptoco
1460	6	2.7	294	5	ABP67061	Abp67061	Human pol
1461	6	2.7	294	6	ABU10244	Abu10244	Human HRT
1462	6	2.7	295	3	AG38729	Aag38729	Arabidops
1463	6	2.7	295	3	ADC84541	Adc84541	Rice RNas
1464	6	2.7	295	7	ADM03988	Adm03988	Human pro
1465	6	2.7	295	7	ABO62266	AbO62266	Klebsiell
1466	6	2.7	295	8	ADO63059	Ado63059	Transcrip
1467	6	2.7	296	2	AAR87038	Aar87038	Human cal
1468	6	2.7	296	7	ADD93538	Ad93538	Novel pol
1469	6	2.7	297	3	AB588271	Ab588271	Lung canc
1470	6	2.7	297	6	ABM15860	Abm15860	Mycobacte
1471	6	2.7	298	3	AA856894	AA856894	Human pro
1472	6	2.7	298	4	AA873844	Aag73844	Human col
1473	6	2.7	298	6	ABU43475	Abu43475	Protein e
1474	6	2.7	298	7	ADC31655	Adc31655	Human nov
1475	6	2.7	298	7	ADC84537	Adc84537	Rice RNas
1476	6	2.7	298	7	ADP66140	Adp66140	Human zac
1477	6	2.7	298	7	ABO79959	AbO79959	Pseudomon
1478	6	2.7	299	6	ABU17888	Abu17888	Protein e
1479	6	2.7	300	1	ABP83022	Abp83022	Human IgG
1480	6	2.7	300	4	ABG06166	Abg06166	Novel hum
1481	6	2.7	300	6	ABU04229	Abu04229	Human exp
1482	6	2.7	300	7	ABW02109	Abw02109	Human com
1483	6	2.7	300	7	ADK41534	Adk41534	Anti-cell
1484	6	2.7	301	3	ABU06712	Abu06712	Arabidops
1485	6	2.7	301	6	ABU33984	Abu33984	Protein e
1486	6	2.7	302	3	AAG53424	Aag53424	Arabidops
1487	6	2.7	302	3	AA09174	Aa09174	Arabidops
1488	6	2.7	302	3	AA09174	Aa09174	Arabidops
1489	6	2.7	302	3	AA09174	Aa09174	Arabidops
1490	6	2.7	303	4	ABG00030	Abg00030	Novel hum
1491	6	2.7	304	4	AB61251	Ab61251	Mature mu
1492	6	2.7	304	4	AA09174	Aa09174	Corynebac
1493	6	2.7	304	4	AA09174	Aa09174	Corynebac
1494	6	2.7	304	6	ABO32687	AbO32687	Secreted
1495	6	2.7	304	6	ADA35795	Ada35795	Acinetoba
1496	6	2.7	304	7	ADB90798	Adb90798	Mouse INT
1497	6	2.7	304	7	ADF71533	Adf71533	Murine IN
1498	6	2.7	304	7	ADF71533	Adf71533	Murine IN
1499	6	2.7	304	8	ADQ10351	Adq10351	Bacterial
1500	6	2.7	305	3	AA09174	Aa09174	Human pol
1501	6	2.7	305	3	AA09174	Aa09174	Human pol
1502	6	2.7	305	3	AA09174	Aa09174	Human pol
1503	6	2.7	305	3	AA09174	Aa09174	Human pol
1504	6	2.7	305	3	AA09174	Aa09174	Human pol
1505	6	2.7	305	3	AA09174	Aa09174	Human pol
1506	6	2.7	305	3	AA09174	Aa09174	Human pol
1507	6	2.7	305	3	AA09174	Aa09174	Human pol
1508	6	2.7	305	3	AA09174	Aa09174	Human pol
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1511	6	2.7	305	3	AA09174	Aa09174	Human pol
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1514	6	2.7	305	3	AA09174	Aa09174	Human pol
1515	6	2.7	305	3	AA09174	Aa09174	Human pol
1516	6	2.7	305	3	AA09174	Aa09174	Human pol
1517	6	2.7	305	3	AA09174	Aa09174	Human pol
1518	6	2.7	305	3	AA09174	Aa09174	Human pol
1519	6	2.7	305	3	AA09174	Aa09174	Human pol
1520	6	2.7	305	3	AA09174	Aa09174	Human pol
1521	6	2.7	305	3	AA09174	Aa09174	Human pol
1522	6	2.7	305	3	AA09174	Aa09174	Human pol
1523	6	2.7	305	3	AA09174	Aa09174	Human pol
1524	6	2.7	305	3	AA09174	Aa09174	Human pol
1525	6	2.7	305	3	AA09174	Aa09174	Human pol
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1527	6	2.7	305	3	AA09174	Aa09174	Human pol
1528	6	2.7	305	3	AA09174	Aa09174	Human pol
1529	6	2.7	305	3	AA09174	Aa09174	Human pol
1530	6	2.7	305	3	AA09174	Aa09174	Human pol
1531	6	2.7	305	3	AA09174	Aa09174	Human pol
1532	6	2.7	305	3	AA09174	Aa09174	Human pol
1533	6	2.7	305	3	AA09174	Aa09174	Human pol
1534	6	2.7	305	3	AA09174	Aa09174	Human pol
1535	6	2.7	305	3	AA09174	Aa09174	Human pol
1536	6	2.7	305	3	AA09174	Aa09174	Human pol
1537	6	2.7	305	3	AA09174	Aa09174	Human pol
1538	6	2.7	305	3	AA09174	Aa09174	Human pol
1539	6	2.7	305	3	AA09174	Aa09174	Human pol
1540	6	2.7	305	3	AA09174	Aa09174	Human pol
1541	6	2.7	305	3	AA09174	Aa09174	Human pol
1542	6	2.7	305	3	AA09174	Aa09174	Human pol
1543	6	2.7	305	3	AA09174	Aa09174	Human pol
1544	6	2.7	305	3	AA09174	Aa09174	Human pol
1545	6	2.7	305	3	AA09174	Aa09174	Human pol
1546	6	2.7	305	3	AA09174	Aa09174	Human pol
1547	6	2.7	305	3	AA09174	Aa09174	Human pol
1548	6	2.7	305	3	AA09174	Aa09174	Human pol
1549	6	2.7	305	3	AA09174	Aa09174	Human pol
1550	6	2.7	305	3	AA09174	Aa09174	Human pol

## ALIGNMENTS

## RESULT 1

AA09174

ID AAB18923 standard; protein; 223 AA.

XX AAB18923;

DT 08-FEB-2001 (first entry)

DE A novel polypeptide designated PRO4408.

Secreted protein; transmembrane protein; PRO1484; PRO4334; PRO1122;  
PRO1889; PRO1890; PRO1785; PRO4353; PRO4357; PRO4405; PRO4356;  
PRO4352; PRO4354; PRO4408; PRO5737; PRO4425; PRO5990; PRO6030;  
PRO4424; PRO4422; PRO4430; PRO4499; tumour; obesity; diabetes;  
insulinemia; kidney disorder; Bergers disease; nephropathy;  
Schonlein-Henoch purpura; celiac disease; dermatitis herpetiformis;  
Crohn's disease.

Homo sapiens.

Key Location/Qualifiers

Peptide 1..22  
Modified-site /note= "signal peptide"  
54..60  
Modified-site /note= "N-myristoylation site"  
59..68  
Modified-site /note= "tyrosine kinase phosphorylation site"  
83..89  
Modified-site /note= "N-myristoylation site"  
130..136  
Modified-site /note= "N-myristoylation site"  
169..173  
Modified-site /note= "N-glycosylation site"

WO200056889-A2.

28-SEP-2000.

01-MAR-2000; 2000WO-US005601.

23-MAR-1999; 99US-0125774P.

23-MAR-1999; 99US-0125778P.

24-MAR-1999; 99US-0125826P.

31-MAR-1999; 99US-0127035P.

05-APR-1999; 99US-0127068P.

21-APR-1999; 99US-0130359P.

27-APR-1999; 99US-0131270P.

27-APR-1999; 99US-0131272P.

04-MAY-1999; 99US-0132371P.

04-MAY-1999; 99US-0132379P.

04-MAY-1999; 99US-0132383P.

25-MAY-1999; 99US-0135750P.

PR 08-JUN-1999; 99US-0138166P.  
PR 20-JUL-1999; 99US-0144791P.  
PR 03-AUG-1999; 99US-0146970P.  
PR 09-DEC-1999; 99US-0170262P.  
XX (GETH ) GENENTECH INC.  
PA  
XX Desnoyers L, Eaton DL, Goddard A, Godowski PJ, Gurney AL, Pan J;  
PI Stewart TA, Watanabe CK, Wood WI, Zhang Z;  
XX  
DR WPI; 2000-628263/60.  
DR N-PSDB; AAA96350.  
XX  
PT Novel secreted and transmembrane polypeptides useful for diagnosing tumor  
PT in a mammal, for identifying agonists and antagonists of the polypeptide  
PT and for therapeutic use.  
XX  
PS Claim 12; Fig 30; 222pp; English.  
XX  
CC The present sequence represents a secreted or transmembrane polypeptide.  
CC The specification describes polypeptides designated PRO1484, PRO4334,  
CC PRO1122, PRO1889, PRO1890, PRO1887, PRO1785, PRO4353, PRO4357, PRO4405,  
CC PRO4356, PRO4352, PRO4380, PRO4354, PRO4408, PRO5737, PRO4425, PRO5990,  
CC PRO6030, PRO4424, PRO4422, PRO4430 and PRO4499. PRO1889 polypeptide is  
CC useful for diagnosing tumor in a mammal. The polypeptides, their  
CC agonists and antagonists are useful treating a condition associated with  
CC expression or activity of the polypeptide. Conditions treated include  
CC obesity, diabetes or hyper- or hypo-insulinemia. The polypeptides are  
CC capable of inducing proliferation of mammalian kidney mesangial cells and  
CC are therefore useful for treating kidney disorders associated with  
CC decreased mesangial cell function such as Bergers disease or other  
CC nephropathies associated with Schönlein-Henoch purpura, celiac disease,  
CC dermatitis herpetiformis or Crohns disease. The nucleic acids may be used  
CC to generate transgenic animals for use in development and screening of  
CC therapeutically useful reagents and also for chromosome identification  
CC and tissue typing  
XX  
SQ Sequence 223 AA;  
Query Match 100.0%; Score 223; DB 3; Length 223;  
Best Local Similarity 100.0%; Pred. No. 3.5e-214; Indels 0; Gaps 0;  
Matches 223; Conservative 0; Mismatches 0;  
QY 1 MGWTRLVTAALLGLMMVVTGDEDSNCFCAHEALLDEDTLFCQGLEVFYFPELGNIGCKV 60  
Db 1 MGWTRLVTAALLGLMMVVTGDEDSNCFCAHEALLDEDTLFCQGLEVFYFPELGNIGCKV 60  
QY 61 VPDCCNNYRQKITSWMEPIVKFPGVDGATYILVMVDPDAPSAEPQRQFWRHVLVTDIKG 120  
Db 61 VPDCCNNYRQKITSWMEPIVKFPGVDGATYILVMVDPDAPSAEPQRQFWRHVLVTDIKG 120  
QY 121 ADLKKGKIQGELSAYQAPSPAHSGFHYQFVYLQBGKVISLLPKENKTRGSKWMDRF 180  
Db 121 ADLKKGKIQGELSAYQAPSPAHSGFHYQFVYLQBGKVISLLPKENKTRGSKWMDRF 180  
QY 181 LNRPHLGPEASTQFTWNTQYQDSPTLQAPRGASEPKHKTRQ 223  
Db 181 LNRPHLGPEASTQFTWNTQYQDSPTLQAPRGASEPKHKTRQ 223  
RESULT 2  
ID AAU83707 standard; protein; 223 AA.  
XX  
AC AAU83707;  
XX  
DT 08-MAY-2002 (first entry)  
XX  
XX Human PRO protein, Seq ID No 232.  
XX  
KW Human; secreted protein; PRO; tumour; lung cancer; colon cancer;  
KW breast cancer; prostate tumour; rectal tumour; liver tumour;  
KW pericyte cell proliferation; chondrocyte cell proliferation;

KW tumour necrosis factor-alpha.  
XX  
OS Homo sapiens.  
XX  
PN WO2000208288-A2.  
XX  
XX 31-JAN-2002.  
PD  
XX 29-JUN-2001; 2001WO-US021066.  
PF  
XX 20-JUL-2000; 2000US-0219556P.  
PR 25-JUL-2000; 2000US-0220585P.  
PR 25-JUL-2000; 2000US-0220605P.  
PR 25-JUL-2000; 2000US-0220607P.  
PR 25-JUL-2000; 2000US-0220624P.  
PR 25-JUL-2000; 2000US-0220638P.  
PR 25-JUL-2000; 2000US-0220664P.  
PR 25-JUL-2000; 2000US-0220666P.  
PR 26-JUL-2000; 2000US-0220893P.  
PR 28-JUL-2000; 2000WO-US020710.  
PR 01-AUG-2000; 2000US-0222425P.  
PR 22-AUG-2000; 2000US-0227133P.  
PR 23-AUG-2000; 2000WO-US023522.  
PR 24-AUG-2000; 2000WO-US023328.  
PR 10-NOV-2000; 2000WO-US030873.  
PR 28-NOV-2000; 2000US-0253646P.  
PR 01-DEC-2000; 2000WO-US032678.  
PR 20-DEC-2000; 2000US-00747259.  
PR 20-DEC-2000; 2000WO-US034956.  
PR 28-FEB-2001; 2001WO-US006520.  
PR 01-MAR-2001; 2001WO-US006666.  
PR 22-MAR-2001; 2001US-00816744.  
PR 10-MAY-2001; 2001US-00854208.  
PR 10-MAY-2001; 2001US-00854280.  
PR 25-MAY-2001; 2001WO-US017092.  
XX  
PA (GETH ) GENENTECH INC.  
XX  
XX Baker KP, Desnoyers L, Gerritsen MB, Goddard A, Godowski PJ;  
PI Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;  
XX  
DR WPI; 2002-172001/22.  
DR N-PSDB; ABK33651.  
XX  
PT One hundred and twenty two nucleic acids encoding PRO polypeptides,  
PT useful for treating a PRO related disorder and for diagnosing tumors such  
PT as lung cancer, colon cancer, breast tumor, prostate tumor, rectal tumor  
PT or liver tumor.  
XX  
PS Claim 11; Fig 232; 359pp; English.  
XX  
CC The invention relates to one hundred and twenty two nucleic acids  
CC encoding PRO polypeptides. The sequences of the 122 PRO polynucleotides  
CC encode human secreted proteins. The PRO nucleic acids, polypeptides,  
CC agonists and antagonists are useful for treating a PRO related disorder.  
CC The PRO polypeptides are useful for diagnosing tumors, especially lung  
CC cancer, colon cancer, breast tumor, prostate tumor, rectal tumor or  
CC liver tumor. The PRO polypeptides are useful for stimulating the  
CC proliferation of, or gene expression, in pericyte cells, for stimulating  
CC the proliferation or differentiation of chondrocyte cells, for  
CC stimulating the release of tumour necrosis factor-alpha from human blood,  
CC for stimulating or inhibiting the proliferation of normal human dermal  
CC fibroblast cells. The PRO polypeptide may also be used as molecular  
CC weight markers and for tissue typing. The PRO nucleic acids have  
CC applications in molecular biology, including use as hybridisation probes,  
CC and in chromosome and gene mapping. AAU83592-AAU83713 represent human PRO  
CC protein sequences of the invention  
XX  
SQ Sequence 223 AA;  
Query Match 100.0%; Score 223; DB 5; Length 223;  
Best Local Similarity 100.0%; Pred. No. 3.5e-214; Indels 0; Gaps 0;  
Matches 223; Conservative 0; Mismatches 0;



```
QY 1 MGWTLRLVTAALLGLMMVVTGDEDENSPCAHEALLDEDTLFCQGLEVFYPYELGNIGCKV 60
Db 1 MGWTLRLVTAALLGLMMVVTGDEDENSPCAHEALLDEDTLFCQGLEVFYPYELGNIGCKV 60
QY 61 VPDCCNNYRQKITSWMEPIVKFPGAVDGGATYILVMVDPDAPSRAEPRQRFWRHLVTDIKG 120
Db 61 VPDCCNNYRQKITSWMEPIVKFPGAVDGGATYILVMVDPDAPSRAEPRQRFWRHLVTDIKG 120
QY 121 ADLKKGKIQQELSAYQAPSPPAHSGFHRYPFVYLQEGKVISLLPKENKTRGSKWMDRF 180
Db 121 ADLKKGKIQQELSAYQAPSPPAHSGFHRYPFVYLQEGKVISLLPKENKTRGSKWMDRF 180
QY 181 LNRFLHGEPEASTQFMNTQYQDSPTLQAPRGRASEPKHKTRQ 223
Db 181 LNRFLHGEPEASTQFMNTQYQDSPTLQAPRGRASEPKHKTRQ 223

RESULT 3
ABB84969
ID ABB84969 standard; protein; 223 AA.
XX
AC ABB84969;
XX
DT 16-MAY-2002 (first entry)
XX
DE Human PRO4408 protein sequence SEQ ID NO:306.
XX
KW Human; angiogenesis; cardiant; cystostatic; antiangiogenic; hypotensive;
KW vulnery; antiarteriosclerotic; PRO agonist; PRO antagonist; trauma;
KW gene therapy; cardiovascular disorder; endothelial disorder; cancer;
KW angiogenic disorder; cardiac hypertrophy; atherosclerosis; hypertension;
KW age-related macular degeneration; arterial stenosis; angina;
KW rheumatoid arthritis; myocardial infarction; thrombophlebitis;
KW lymphangitis; tumour angiogenesis; breast carcinoma; liver carcinoma;
KW wound healing; chromosome mapping; gene mapping.
XX
OS Homo sapiens.
XX
PN WO200200690-A2.
XX
PD 03-JAN-2002.
XX
PF 20-JUN-2001; 2001WO-US019692.
XX
PR 23-JUN-2000; 2000US-0213637P.
PR 20-JUL-2000; 2000US-0219556P.
PR 25-JUL-2000; 2000US-0220624P.
PR 25-JUL-2000; 2000US-0220664P.
PR 28-JUL-2000; 2000WO-US020710.
PR 02-AUG-2000; 2000US-0222695P.
PR 17-AUG-2000; 2000US-00643657.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 07-SEP-2000; 2000US-0230978P.
PR 18-SEP-2000; 2000US-00664610.
PR 18-SEP-2000; 2000US-00665350.
PR 24-OCT-2000; 2000US-0242922P.
PR 08-NOV-2000; 2000US-00709238.
PR 08-NOV-2000; 2000WO-US030952.
PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 22-JAN-2001; 2001US-00767609.
PR 28-FEB-2001; 2001US-00796498.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-MAR-2001; 2001WO-US006566.
PR 09-MAR-2001; 2001US-00802706.
PR 14-MAR-2001; 2001US-00808689.
PR 22-MAR-2001; 2001US-00816744.
PR 05-APR-2001; 2001US-00828366.
PR 10-MAY-2001; 2001US-00854208.
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PR 10-MAY-2001; 2001US-00854280.
PR 25-MAY-2001; 2001US-00866028.
PR 25-MAY-2001; 2001US-00866034.
PR 25-MAY-2001; 2001WO-US017092.
PR 30-MAY-2001; 2001US-00870574.
PR 30-MAY-2001; 2001WO-US017443.
PR 01-JUN-2001; 2001WO-US017800.
XX (GETH ) GENENTECH INC.
XX
XX Baker KP, Ferrara N, Gerber H, Gerritson ME, Goddard A;
PI Godowski BJ, Gurney AL, Hillan KJ, Marsters SA, Pan J, Paoni NF;
PI Stephan JF, Watanabe CK, Williams PM, Wood WI, Ye W;
XX
XX WPI; 2002-090516/12.
XX N-PSDB; ABL88224.
XX
XX One hundred and eighty seven nucleic acids encoding PRO polypeptides,
XX useful in diagnosis and treatment of cardiovascular (e.g. myocardial
XX infarction), endothelial or angiogenic disorders in a mammal.
XX
XX Claim 11; Fig 306; 565pp; English.
XX
XX ABL88072 to ABL88258 encode the PRO proteins given in ABB84817 to
XX ABB85003. The PRO proteins and polynucleotides have cardiant, cytostatic,
XX antiangiogenic, hypotensive, vulnery and antiarteriosclerotic
XX activities, and can be used in gene therapy. The PRO polynucleotides,
XX proteins, agonists and antagonists are useful for treating or diagnosing
XX a cardiovascular, endothelial or angiogenic disorder in a mammal, e.g.
XX cardiac hypertrophy, trauma, cancer, age-related macular degeneration,
XX atherosclerosis, hypertension, arterial stenosis, rheumatoid arthritis,
XX angina, myocardial infarction, thrombophlebitis, lymphangitis, tumour
XX angiogenesis (such as breast carcinoma and liver carcinoma) and wound
XX healing. The PRO polynucleotides have applications in molecular biology,
XX including use as hybridisation probes, and in chromosome and gene
XX mapping. ABL88259 to ABL88267 represent primers and probes used in the
XX exemplification of the present invention
XX
XX Sequence 223 AA;
XX
XX Query Match 100.0%; Score 223; DB 5; Length 223;
XX Best Local Similarity 100.0%; Pred. No. 3.5e-214;
XX Matches 223; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1 MGWTLRLVTAALLGLMMVVTGDEDENSPCAHEALLDEDTLFCQGLEVFYPYELGNIGCKV 60
Db 1 MGWTLRLVTAALLGLMMVVTGDEDENSPCAHEALLDEDTLFCQGLEVFYPYELGNIGCKV 60
QY 61 VPDCCNNYRQKITSWMEPIVKFPGAVDGGATYILVMVDPDAPSRAEPRQRFWRHLVTDIKG 120
Db 61 VPDCCNNYRQKITSWMEPIVKFPGAVDGGATYILVMVDPDAPSRAEPRQRFWRHLVTDIKG 120
QY 121 ADLKKGKIQQELSAYQAPSPPAHSGFHRYPFVYLQEGKVISLLPKENKTRGSKWMDRF 180
Db 121 ADLKKGKIQQELSAYQAPSPPAHSGFHRYPFVYLQEGKVISLLPKENKTRGSKWMDRF 180
QY 181 LNRFLHGEPEASTQFMNTQYQDSPTLQAPRGRASEPKHKTRQ 223
Db 181 LNRFLHGEPEASTQFMNTQYQDSPTLQAPRGRASEPKHKTRQ 223

RESULT 4
ABB95575
ID ABB95575 standard; protein; 223 AA.
XX
AC ABB95575;
XX
XX 19-JUL-2002 (first entry)
XX
XX Human angiogenesis related protein PRO4408 SEQ ID NO: 306.
XX
XX Human; angiogenesis; PRO protein; cardiovascularisation; wound; cancer;
XX atherosclerosis; cardiac hypertrophy; gene therapy; endothelial disorder;
XX
```

KW cardiant; cytostatic; antiangiogenic; hypotensive; vulnerary;  
XX antiarteriosclerotic.

OS Homo sapiens.

XX WO200208284-A2.

PD 31-JAN-2002.

XX 09-JUL-2001; 2001WO-US021735.

XX 20-JUL-2000; 2000US-0219556P.

PR 25-JUL-2000; 2000US-0220624P.

PR 25-JUL-2000; 2000US-0220664P.

PR 28-JUL-2000; 2000WO-US020710.

PR 02-AUG-2000; 2000US-0222695P.

PR 17-AUG-2000; 2000US-00643657.

PR 23-AUG-2000; 2000WO-US023322.

PR 24-AUG-2000; 2000WO-US023328.

PR 07-SEP-2000; 2000US-0230978P.

PR 18-SEP-2000; 2000US-00664610.

PR 18-SEP-2000; 2000US-00665350.

PR 24-OCT-2000; 2000US-0242922P.

PR 08-NOV-2000; 2000US-00709238.

PR 08-NOV-2000; 2000WO-US030952.

PR 10-NOV-2000; 2000WO-US030873.

PR 01-DEC-2000; 2000WO-US032678.

PR 20-DEC-2000; 2000US-00747259.

PR 20-DEC-2000; 2000WO-US034956.

PR 22-JAN-2001; 2001US-00767609.

PR 28-FEB-2001; 2001US-00796498.

PR 28-FEB-2001; 2001WO-US006520.

PR 01-MAR-2001; 2001WO-US006666.

PR 09-MAR-2001; 2001US-00802706.

PR 14-MAR-2001; 2001US-00808689.

PR 22-MAR-2001; 2001US-00816744.

PR 05-APR-2001; 2001US-00828366.

PR 10-MAY-2001; 2001US-00854208.

PR 25-MAY-2001; 2001US-00854280.

PR 25-MAY-2001; 2001US-00866028.

PR 25-MAY-2001; 2001US-00866034.

PR 25-MAY-2001; 2001WO-US017092.

PR 30-MAY-2001; 2001US-00870574.

PR 30-MAY-2001; 2001WO-US017443.

PR 01-JUN-2001; 2001WO-US017800.

PR 20-JUN-2001; 2001WO-US019692.

XX (GETH) GENENTECH INC.

PA (BAKE/) BAKER K P.

PA (FERR/) FERRARA N.

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PA (GERP/) GERITSEN M E.

PA (GODD/) GODDARD A.

PA (GODO/) GODOWSKI P J.

PA (GURN/) GURNEY A L.

PA (HILL/) HILLAN K J.

PA (MARS/) MARSTERS S A.

PA (PANT/) PAN J.

PA (PAON/) PAONI N F.

PA (STEP/) STEPHAN J F.

PA (WATA/) WATANABE C K.

PA (WILL/) WILLIAMS P M.

PA (WOOD/) WOOD W I.

PI Baker KP, Ferrara N, Gerber H, Gerritsen ME, Goddard A;

PI Godowski PJ, Gurney AL, Hillan KJ, Marsters SA, Pan J, Paoni NF;

PI Stephan JF, Watanabe CK, Williams PM, Wood WI, Ye W;

XX WPI; 2002-171999/22.

DR N-PSDB; ABL95713.

XX One hundred and eighty seven nucleic acids encoding PRO polypeptides,

PT useful in diagnosis and treatment of cardiovascular (e.g. myocardial

PT infarction), endothelial or angiogenic disorders in a mammal.

XX Claim 11; Fig 306; 567pp; English.

XX The present invention provides the protein and coding sequences of human  
CC PRO proteins. These are useful for treating or diagnosing a  
CC cardiovascular, endothelial or angiogenic disorder, including cardiac  
CC hypertrophy, trauma, cancer, age-related macular degeneration,  
CC atherosclerosis, hypertension, arterial restenosis, rheumatoid arthritis,  
CC angina, myocardial infarctions, thrombophlebitis, lymphangitis, and wound  
CC angiogenesis (such as breast carcinoma and liver carcinoma) and wound  
CC healing. The present sequence is a PRO protein of the invention  
XX

SQ Sequence 223 AA;

Query Match 100.0%; Score 223; DB 5; Length 223;

Best Local Similarity 100.0%; Pred. No. 3.5e-214;

Matches 223; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGWTMRLVTAALLGLMMVVTGDEENSPCAHEALLDEDTLFCQGLEVFYPGLGNIGCKV 60

Db 1 MGWTMRLVTAALLGLMMVVTGDEENSPCAHEALLDEDTLFCQGLEVFYPGLGNIGCKV 60

Qy 61 VPCNNYRQKITSWMEPIVKFPGAVDGATYILVMVDPDAPSAEPRQRFWRHLVTDIKG 120

Db 61 VPCNNYRQKITSWMEPIVKFPGAVDGATYILVMVDPDAPSAEPRQRFWRHLVTDIKG 120

Qy 121 ADLKKGIQGOELSAQAPSPAHSGFHYOFFVYLOEGKVISLLPKENKTRGSKMDRF 180

Db 121 ADLKKGIQGOELSAQAPSPAHSGFHYOFFVYLOEGKVISLLPKENKTRGSKMDRF 180

Qy 181 LNRFHGLGEPEASTQFTMTQNYQDSPTLOAPGRASEPKHKTRQ 223

Db 181 LNRFHGLGEPEASTQFTMTQNYQDSPTLOAPGRASEPKHKTRQ 223

RESULT 5

ABU69117

ID ABU69117 standard; protein; 223 AA.

XX AC ABU69117;

XX DT 02-JUN-2003 (first entry)

XX DE Human PRO polypeptide #15.

XX KW Human; secreted and transmembrane protein; bone disorder; obesity;  
KW cartilage disorder; sports injury; arthritis; diabetes mellitus;  
KW hypo-insulinaemia; obesity; hyper-insulinaemia; thalassaemia;  
KW haemoglobin-associated disorder; kidney disorder; Berger disease;  
KW mesangial cell function; nephropathy; Schonlein-Henoch purpura;  
KW celiac disease; dermatitis herpetiformis; Crohn's disease; anorectic;  
KW antiarthritic; antidiabetic; antianaemic; nephrotropic; antiinflammatory.

OS Homo sapiens.

XX US2003032061-A1.

XX PD 13-FEB-2003.

XX PF 26-DEC-2001; 2001US-00036214.

XX PR 15-MAY-1998; 98US-0085579P.

PR 15-DEC-1998; 98US-0112514P.

PR 22-DEC-1998; 98US-0113300P.

PR 23-DEC-1998; 98US-0113430P.

PR 23-DEC-1998; 98US-0113605P.

PR 23-DEC-1998; 98US-0113621P.

PR 23-DEC-1998; 98US-0114140P.

PR 12-JAN-1999; 99US-0115552P.

PR 22-JAN-1999; 99US-0116843P.

PR 23-MAR-1999; 99US-0125774P.

PR 23-MAR-1999; 99US-0125778P.

PR 24-MAR-1999; 99US-0125826P.  
PR 31-MAR-1999; 99US-0127035P.  
PR 05-APR-1999; 99US-0127706P.  
PR 13-APR-1999; 99US-0129122P.  
PR 21-APR-1999; 99US-0130359P.  
PR 27-APR-1999; 99US-0131270P.  
PR 27-APR-1999; 99US-0131272P.  
PR 27-APR-1999; 99US-0131291P.  
PR 04-MAY-1999; 99US-0132371P.  
PR 04-MAY-1999; 99US-0132379P.  
PR 04-MAY-1999; 99US-0132383P.  
PR 14-MAY-1999; 99US-0132383P.  
PR 25-MAY-1999; 99US-0135750P.  
PR 08-JUN-1999; 99US-0138166P.  
PR 20-JUL-1999; 99US-0144791P.  
PR 03-AUG-1999; 99US-0146970P.  
PR 29-OCT-1999; 99US-0162506P.  
PR 02-DEC-1999; 99US-028551.  
PR 22-DEC-1999; 99US-0307020.  
PR 01-MAR-2000; 2000US-0505601.  
PR 02-MAR-2000; 2000US-0505841.  
PR 22-MAY-2000; 2000US-0505841.  
PR 02-JUN-2000; 2000US-0514042.  
PR 23-AUG-2000; 2000US-0523522.  
PR 24-AUG-2000; 2000US-0523328.  
PR 01-DEC-2000; 2000US-0532678.  
PR 20-DEC-2000; 2000US-0534956.  
PR 28-FEB-2001; 2001US-0506520.  
PR 01-JUN-2001; 2001US-05017800.  
PR 20-JUN-2001; 2001US-05019692.  
PR 29-JUN-2001; 2001US-05021066.  
PR 09-JUL-2001; 2001US-05021735.  
PR 16-AUG-2001; 2001US-00931836.  
XX (GETH ) GENENTECH INC.  
XX  
XX Desnoyers L, Eaton DL, Goddard A, Godowski PJ, Gurney AL, Pan J;  
PI Stewart TA, Watanabe CK, Wood WI, Zhang Z;  
XX  
XX NPI; 2003-341962/32.  
DR N-PSDB; ACA06170.  
XX  
XX Novel isolated PRO polypeptides e.g., PRO4334, PRO1122, PRO1889, PRO1890,  
PT PRO1887, PRO1785, PRO4333, useful for treating sports injuries,  
PT arthritis, diabetes, obesity, hyper- or hypo-insulinemia.  
XX  
PS Claim 12; Fig 30; 194pp; English.  
XX  
XX The present invention relates to the isolation of novel human PRO  
CC polypeptides, and the polynucleotide sequences encoding them. The PRO  
CC polypeptides are secreted and transmembrane proteins. The PRO  
CC polypeptides and polynucleotides are useful in diagnosing or treating  
CC various bone and/or cartilage disorders (e.g. sports injuries,  
CC arthritis), various insulin deficient states (e.g. diabetes mellitus,  
CC hypo-insulinaemia), obesity, hyper-insulinaemia, haemoglobin-associated  
CC disorders (e.g. thalassemias), kidney disorders associated with  
CC decreased mesangial cell function (e.g. Berger disease), or other  
CC nephropathies associated with Schönlein-Henoch purpura, celiac disease,  
CC dermatitis herpetiformis or Crohn's disease. The PRO polynucleotide  
CC sequences may be used as hybridisation probes in chromosome and gene  
CC mapping, or in generating antisense RNA and DNA. They are also useful in  
CC preparing PRO polypeptides, in assays to identify other proteins or  
CC molecules involved in binding reaction, to generate transgenic animals or  
CC knockout animals, which in turn are useful in the development and  
CC screening of therapeutically useful reagents, for chromosome  
CC identification, and tissue typing. The PRO polypeptides and nucleic acid  
CC molecules are also useful in gene therapy, and as molecular weight  
CC markers for protein electrophoresis purposes. Anti-PRO antibodies may be  
CC used in diagnostic assays for PRO polypeptides, or for the affinity  
CC purification of the polypeptides from recombinant cell culture or natural  
CC sources. ABU69103-ABU69125 represent the human PRO polypeptides of the  
CC invention

SQ Sequence 223 AA;  
Query Match 100.0%; Score 223; DB 6; Length 223;  
Best Local Similarity 100.0%; Pred. No. 3.5e-214;  
Matches 223; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MGWTMRLVTAALLGLMMVVTGDDSPCAHEALLDDTLFCQGLEVFYFELGNIGCKV 60  
DB 1 MGWTMRLVTAALLGLMMVVTGDDSPCAHEALLDDTLFCQGLEVFYFELGNIGCKV 60  
QY 61 VPDCCNRYRQKITSWMEPIVKFPGAVDGYTILVWVDPDAPSAEPQRFWRHVLVDIKG 120  
DB 61 VPDCCNRYRQKITSWMEPIVKFPGAVDGYTILVWVDPDAPSAEPQRFWRHVLVDIKG 120  
QY 121 ADLKKGIQGGELSAQAPSPAHSGFHRHYOFFVYVYQEGKVISLIPKENTKRGSKWDRF 180  
DB 121 ADLKKGIQGGELSAQAPSPAHSGFHRHYOFFVYVYQEGKVISLIPKENTKRGSKWDRF 180  
QY 181 LNRFHLEPEASTQFMTQNYQDSPTLQAPGRASEPKHKTRQR 223  
DB 181 LNRFHLEPEASTQFMTQNYQDSPTLQAPGRASEPKHKTRQR 223  
RESULT 6  
ASU80854  
ID ASU80854 standard; protein; 223 AA.  
AC ASU80854;  
XX  
XX 23-JUN-2003 (first entry)  
XX Human PRO polypeptide #116.  
DE Human; PRO polypeptide; secreted and transmembrane protein;  
XX anti-PRO antibody; diagnostic assay; gene expression; tumour; cytostatic.  
XX Homo sapiens.  
XX US2003036635-A1.  
XX 20-FEB-2003.  
XX 28-AUG-2002; 2002US-00230163.  
XX 25-JUL-2000; 2000US-0220638P.  
PR 01-JUN-2001; 2001US-05017800.  
PR 29-JUN-2001; 2001US-05021066.  
PR 09-APR-2002; 2002US-00119480.  
XX (GETH ) GENENTECH INC.  
PA Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;  
XX Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;  
PI WPI; 2003-342045/32.  
XX N-PSDB; ACA66956.  
XX One hundred and twenty two nucleic acids encoding PRO polypeptides,  
PT useful for the manufacture of a medicament for diagnosing or treating  
PT tumor.  
XX Claim 11; Fig 232; 314pp; English.  
XX The present invention relates to the isolation of novel human PRO  
CC polypeptides, and the polynucleotide sequences encoding them. The PRO  
CC polypeptides are secreted and transmembrane proteins. The PRO  
CC polypeptides and polynucleotides are useful for preparing a medicament  
CC useful in the diagnosis and treatment of tumours. Anti-PRO antibodies are  
CC specific in diagnostic assays for PRO, by detecting its expression in  
CC specific cells, tissues or serum, and for affinity purification of PRO  
CC from recombinant cell culture or natural sources. ABU80739-ABU80860  
CC represent the human PRO polypeptides of the invention. Note: The sequence  
CC data for this patent was obtained in electronic format directly from the

```
CC USPTO web site at seqdata.uspto.gov/psipspidEntry.html
XX
SQ Sequence 223 AA;

Query Match 100.0%; Score 223; DB 6; Length 223;
Best Local Similarity 100.0%; Pred. No. 3.5e-214;
Matches 223; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGWTMLVTAALLGLMMVVTGDENSPCAHEALLDEDTLFCQGLEVFYPGLGNIGCKV 60
DB 1 MGWTMLVTAALLGLMMVVTGDENSPCAHEALLDEDTLFCQGLEVFYPGLGNIGCKV 60
QY 61 VPDCNNYRQKITSWMEPIVKFPGAVDGTATYILVMVDPDAPSRAEPRQRFWRHLVTDIKG 120
DB 61 VPDCNNYRQKITSWMEPIVKFPGAVDGTATYILVMVDPDAPSRAEPRQRFWRHLVTDIKG 120
QY 121 ADLKGKIQGELSAYQAPSPPAHSGFHRYQFFVYLOEGKVISLLPKENKTRGSKWMDRF 180
DB 121 ADLKGKIQGELSAYQAPSPPAHSGFHRYQFFVYLOEGKVISLLPKENKTRGSKWMDRF 180
QY 181 LNRHFLGEPEASTQFMTQNYQDSPTLQAPRGRASEPKHKTRQ 223
DB 181 LNRHFLGEPEASTQFMTQNYQDSPTLQAPRGRASEPKHKTRQ 223

RESULT 7
ABO33820
ID ABO33820 standard; protein; 223 AA.
XX
AC ABO33820;
XX
DT 17-SEP-2003 (first entry)
XX
DE Novel human secreted and transmembrane protein PRO4408.
XX
KW Human; secreted and transmembrane protein; PRO; cytostatic;
antiarthritic; osteopathic; gene therapy; TNF-Agonist-Alpha;
chondrocyte stimulator; pericyte stimulator; fibroblast modulator;
pharmaceutical; diagnostic; biosensor; bioreactor; tumour; lung tumour;
colon tumour; breast tumour; prostate tumour; rectal tumour;
liver tumour; bone disorder; cartilage disorder; sports injury;
arthritis; wound.
XX
OS Homo sapiens.
XX
PN US2003045687-A1.
XX
PD 06-MAR-2003.
XX
PF 12-AUG-2002; 2002US-00218631.
XX
PR 01-JUN-2001; 2001WO-US017800.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-APR-2002; 2002US-00119480.
XX
PA (GETH ) GENENTECH INC.
XX
PI Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;
XX
DR WPI; 2003-512315/48.
XX
DR N-PSDB; ACD68708.
XX
New genes, and its encoded secreted and transmembrane polypeptides,
PT useful for stimulating Tumor Necrosis Factor alpha, or chondrocyte, or
PT pericyte proliferation, especially for treating lung tumors, arthritis or
PT wounds in a mammal.
XX
PS Claim 11; Fig 232; 314pp; English.
XX
The invention describes an isolated nucleic acid molecule comprising a
CC sequence with at least 80% identity to: (a) a nucleotide encoding any of
CC 122 PRO (secreted and transmembrane) polypeptides whose sequences are
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CC fully defined in the specification; or (b) any of 122 nucleotide
CC sequences having e.g. 4834, 2504 or 1759 bp fully defined in the
CC specification; or the full length coding sequence of any these 122
CC nucleotide sequences. The PRO polypeptides or polynucleotides are useful
CC as pharmaceuticals, diagnostics, biosensors or bioreactors. These are
CC particularly useful for detecting tumours (e.g. lung tumour, colon
CC tumour, breast tumour, prostate tumour, rectal tumour, or liver tumour)
CC in a mammal, for stimulating the release of TNF-alpha from human blood,
CC for stimulating the proliferation or differentiation of chondrocyte
CC cells, for stimulating proliferation of pericyte cells, or for modulating
CC normal human dermal fibroblast proliferation. The PRO nucleic acid or
CC polypeptide is also useful for treating tumours or various bone and/or
CC cartilage disorders (e.g. sports injuries or arthritis), or wounds. The
CC PRO polypeptides are useful in drug screening, particularly as targets
CC for therapeutic intervention in these diseases, and in the diagnostic
CC determination of the presence of these diseases. The PRO polypeptides are
CC also useful as molecular weight markers, or for chromosome
CC identification. The PRO genes are useful as hybridisation probes, or for
CC screening libraries of human cDNA, genomic DNA or mRNA. The PRO genes may
CC also be used in gene therapy, particularly for replacing a defective
CC gene. This is the amino acid sequence of a novel human secreted and
CC transmembrane PRO polypeptide
XX
SQ Sequence 223 AA;

Query Match 100.0%; Score 223; DB 6; Length 223;
Best Local Similarity 100.0%; Pred. No. 3.5e-214;
Matches 223; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGWTMLVTAALLGLMMVVTGDENSPCAHEALLDEDTLFCQGLEVFYPGLGNIGCKV 60
DB 1 MGWTMLVTAALLGLMMVVTGDENSPCAHEALLDEDTLFCQGLEVFYPGLGNIGCKV 60
QY 61 VPDCNNYRQKITSWMEPIVKFPGAVDGTATYILVMVDPDAPSRAEPRQRFWRHLVTDIKG 120
DB 61 VPDCNNYRQKITSWMEPIVKFPGAVDGTATYILVMVDPDAPSRAEPRQRFWRHLVTDIKG 120
QY 121 ADLKGKIQGELSAYQAPSPPAHSGFHRYQFFVYLOEGKVISLLPKENKTRGSKWMDRF 180
DB 121 ADLKGKIQGELSAYQAPSPPAHSGFHRYQFFVYLOEGKVISLLPKENKTRGSKWMDRF 180
QY 181 LNRHFLGEPEASTQFMTQNYQDSPTLQAPRGRASEPKHKTRQ 223
DB 181 LNRHFLGEPEASTQFMTQNYQDSPTLQAPRGRASEPKHKTRQ 223

RESULT 8
ABO19433
ID ABO19433 standard; protein; 223 AA.
XX
AC ABO19433;
XX
DT 27-AUG-2003 (first entry)
XX
DE Human secreted / transmembrane polypeptide PRO4408.
XX
KW Human; gene therapy; diabetes; obesity; hypoinsulinaemia.
XX
OS Homo sapiens.
XX
PN US2003027249-A1.
XX
PD 06-FEB-2003.
XX
PF 16-AUG-2001; 2001US-00931836.
XX
PR 15-MAY-1998; 98US-0085579P.
PR 15-DEC-1998; 98US-0112514P.
PR 22-DEC-1998; 98US-0113300P.
PR 23-DEC-1998; 98US-0113430P.
PR 23-DEC-1998; 98US-0113605P.
PR 23-DEC-1998; 98US-0113621P.
PR 23-DEC-1998; 98US-0114140P.
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PR 12-JAN-1999; 99US-0115552P.
PR 22-JAN-1999; 99US-0116843P.
PR 23-MAR-1999; 99US-0125774P.
PR 23-MAR-1999; 99US-0125778P.
PR 24-MAR-1999; 99US-0125826P.
PR 31-MAR-1999; 99US-0127035P.
PR 05-APR-1999; 99US-0127708P.
PR 13-APR-1999; 99US-0129122P.
PR 21-APR-1999; 99US-0130359P.
PR 27-APR-1999; 99US-0131270P.
PR 27-APR-1999; 99US-0131272P.
PR 27-APR-1999; 99US-0131291P.
PR 04-MAY-1999; 99US-0132371P.
PR 04-MAY-1999; 99US-0132379P.
PR 14-MAY-1999; 99US-0132383P.
PR 25-MAY-1999; 99US-0135750P.
PR 08-JUN-1999; 99US-0138168P.
PR 20-JUL-1999; 99US-0144791P.
PR 03-AUG-1999; 99US-0146970P.
PR 25-AUG-1999; 99US-00380142.
PR 29-OCT-1999; 99US-0162506P.
PR 02-DEC-1999; 99WO-US028551.
PR 22-DEC-1999; 99WO-US030720.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005841.
PR 22-MAY-2000; 2000WO-US014042.
PR 02-JUN-2000; 2000WO-US015264.
PR 22-AUG-2000; 2000US-00644848.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023338.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 28-DEC-2000; 2000WO-US034956.
PR 20-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001US-00816744.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001US-00869599.
PR 29-JUN-2001; 2001WO-US021086.
PR 09-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
XX
XX (GETH ) GENENTECH INC.
XX
XX Deanoysers L, Eaton DL, Goddard A, Godowski PJ, Gurney AL, Pan J;
XX Stewart TA, Watanabe CK, Wood WT, Zhang Z;
XX
XX WPI; 2003-492030/46.
XX N-PSDB; ACD28839.
XX
XX New isolated, secreted and transmembrane PRO polypeptides and encoding
XX nucleic acids, useful for the diagnosis and treatment of disorders such
XX as diabetes, obesity and/or hypoinulinemia.
XX
XX Claim 12; Fig 30; 196pp; English.
XX
XX The invention relates to a new isolated nucleic acid which encodes a PRO
XX polypeptide. The methods and compositions of the present invention are
XX useful for the diagnosis and treatment of disorders associated with the
XX PRO polypeptides, such as diabetes, obesity and hypoinulinemia. The
XX present sequence represents the amino acid sequence of a human secreted
XX and transmembrane PRO polypeptide
XX
XX Sequence 223 AA;
XX
XX Query Match 100.0%; Score 223; DB 6; Length 223;
XX Best Local Similarity 100.0%; Pred. No. 3.58-214;
XX Matches 223; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

PR 01-MAR-2000; 2000WO-US005601.  
PR 02-MAR-2000; 2000WO-US005841.  
PR 22-MAY-2000; 2000WO-US014042.  
PR 02-JUN-2000; 2000WO-US015264.  
PR 23-AUG-2000; 2000WO-US023522.  
PR 24-AUG-2000; 2000WO-US023328.  
PR 01-DEC-2000; 2000WO-US032678.  
PR 20-DEC-2000; 2000WO-US034956.  
PR 28-FEB-2001; 2001WO-US006520.  
PR 01-JUN-2001; 2001WO-US017800.  
PR 20-JUN-2001; 2001WO-US019692.  
PR 29-JUN-2001; 2001WO-US021066.  
PR 09-JUL-2001; 2001WO-US021735.  
PR 16-AUG-2001; 2001US-00931836.  
XX (GETH ) GENENTECH INC.  
XX Desnoyers L, Eaton DL, Goddard A, Godowski PJ, Gurney AL, Pan J;  
PI Stewart TA, Watanabe CK, Wood WI, Zhang Z;  
PI N-PSDB; ACA06113.  
DR WPI; 2003-341326/32.  
DR N-PSDB; ACA06113.  
XX New PRO polypeptides and nucleic acid molecules, useful for diagnosing or  
PT treating diabetes mellitus, cancers, septic shock, inflammatory bowel  
PT disease or asthma, or in gene therapy, chromosome identification or  
PT tissue typing.  
XX Claim 12; Fig 30; 196pp; English.  
PS The present invention relates to the isolation of novel human PRO  
XX polypeptides, and the polynucleotide sequences encoding them. The PRO  
CC polypeptides are secreted and transmembrane proteins. The PRO  
CC polypeptides and polynucleotides are useful in diagnosing or treating non  
CC -insulin dependent diabetes mellitus, cancers, septic shock, rheumatoid  
CC arthritis, graft-versus-host disease, stroke, cardiac ischaemia,  
CC psoriasis, inflammatory bowel disease or asthma. The PRO polynucleotide  
CC sequences may be used as hybridisation probes in chromosome and gene  
CC mapping, or in generating antisense RNA and DNA. They are also useful in  
CC preparing PRO polypeptides, in assays to identify other proteins or  
CC molecules involved in binding reaction, to generate transgenic animals or  
CC knockout animals, which in turn are useful in the development and  
CC screening of therapeutically useful reagents, for chromosome  
CC identification, and tissue typing. The PRO polypeptides and nucleic acid  
CC molecules are also useful in gene therapy, and as molecular weight  
CC markers for protein electrophoresis purposes. Anti-PRO antibodies may be  
CC used in diagnostic assays for PRO polypeptides, or for the affinity  
CC purification of the polypeptides from recombinant cell culture or natural  
CC sources. ABU69080-ABU69102 represent the human PRO polypeptides of the  
XX invention  
SQ Sequence 223 AA;  
Query Match 100.0%; Score 223; DB 6; Length 223;  
Best Local Similarity 100.0%; Pred. No. 3.5e-214; Mismatches 0; Indels 0; Gaps 0;  
Matches 223; Conservative 0;  
QY 1 MGWTRLVTAALLGLMMVVTGDENSPCAHEALLDEDTLFCQGLEVFYFELGNIGCKV 60  
Db 1 MGWTRLVTAALLGLMMVVTGDENSPCAHEALLDEDTLFCQGLEVFYFELGNIGCKV 60  
QY 61 VPCDNNYRQKITSWMEPIVKFPGAVDGYATYILVMVDPDAPRAEPQRQFWRHVLVDIKG 120  
Db 61 VPCDNNYRQKITSWMEPIVKFPGAVDGYATYILVMVDPDAPRAEPQRQFWRHVLVDIKG 120  
QY 121 ADLKGKIQGQELSAQYAPSPAHSGFHHYOFFVVLQEGKVISLLPKENKTRGSKWDRF 180  
Db 121 ADLKGKIQGQELSAQYAPSPAHSGFHHYOFFVVLQEGKVISLLPKENKTRGSKWDRF 180  
QY 181 LNRFLGPEASTQPMQTQYQDSPTLQAPRGRASEPKHKTRQ 223  
Db 181 LNRFLGPEASTQPMQTQYQDSPTLQAPRGRASEPKHKTRQ 223

RESULT 10  
ABU82163  
ID ABU82163 standard; protein; 223 AA.  
XX  
AC ABU82163;  
XX  
DT 25-JUN-2003 (first entry)  
XX  
DE Novel human secreted and transmembrane protein PRO4408.  
XX Human; secreted and transmembrane protein; PRO; cardiant; cytostatic;  
KW antiangiogenic; hypotensive; vulnery; antiatherosclerotic;  
KW gene therapy; cardiovascular disorder; endothelial disorder;  
KW angiogenic disorder; cardiac hypertrophy; trauma; cancer;  
KW age-related macular degeneration; atherosclerosis; hypertension;  
KW arterial restenosis; rheumatoid arthritis; angina; myocardial infarction;  
KW thrombophlebitis; lymphangitis; tumour angiogenesis; breast carcinoma;  
KW liver carcinoma; wound healing; chromosome mapping; gene mapping.  
XX  
OS Homo sapiens.  
XX US2003088063-A1.  
XX  
PD 08-MAY-2003.  
XX  
PF 12-AUG-2002; 2002US-00219003.  
XX  
PR 25-JUN-2000; 2000US-0220664P.  
PR 01-JUN-2001; 2001WO-US017800.  
PR 29-JUN-2001; 2001WO-US021066.  
PR 09-APR-2002; 2002US-00119480.  
XX  
PA (GETH ) GENENTECH INC.  
XX Baker KP, Desnoyers L, Gerritsen MB, Goddard A, Godowski PJ;  
PI Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;  
XX WPI; 2003-393229/37.  
DR N-PSDB; ACA68612.  
XX One hundred and eighty seven nucleic acids encoding PRO polypeptides,  
PT useful in diagnosis and treatment of cardiovascular (e.g. myocardial  
PT infarction), endothelial or angiogenic disorders in a mammal.  
XX Claim 11; Fig 232; 314pp; English.  
CC The invention describes one hundred and eighty seven nucleic acids  
CC encoding novel human secreted and transmembrane (PRO) polypeptides. The  
CC PRO nucleic acids, polypeptides, agonists and antagonists are useful for  
CC treating or diagnosing a cardiovascular, endothelial or angiogenic  
CC disorder in a mammal, e.g. cardiac hypertrophy, trauma, cancer, age-  
CC related macular degeneration, atherosclerosis, hypertension, arterial  
CC restenosis, rheumatoid arthritis, angina, myocardial infarctions,  
CC thrombophlebitis, lymphangitis, tumour angiogenesis (such as breast  
CC carcinoma and liver carcinoma) and wound healing. The PRO nucleic acids  
CC have applications in molecular biology, including use as hybridisation  
CC probes, and in chromosome and gene mapping. This is the amino acid  
CC sequence of a novel human secreted and transmembrane PRO polypeptide  
XX  
SQ Sequence 223 AA;  
Query Match 100.0%; Score 223; DB 6; Length 223;  
Best Local Similarity 100.0%; Pred. No. 3.5e-214;  
Matches 223; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MGWTRLVTAALLGLMMVVTGDENSPCAHEALLDEDTLFCQGLEVFYFELGNIGCKV 60  
Db 1 MGWTRLVTAALLGLMMVVTGDENSPCAHEALLDEDTLFCQGLEVFYFELGNIGCKV 60  
QY 61 VPCDNNYRQKITSWMEPIVKFPGAVDGYATYILVMVDPDAPRAEPQRQFWRHVLVDIKG 120  
Db 61 VPCDNNYRQKITSWMEPIVKFPGAVDGYATYILVMVDPDAPRAEPQRQFWRHVLVDIKG 120

QY 121 ADLKKGKIQQGELSAYQAPSPAHSGFHRHYOFFVYVLOEGKVISLLPKENKTRGSKWMDRF 180  
DB 121 ADLKKGKIQQGELSAYQAPSPAHSGFHRHYOFFVYVLOEGKVISLLPKENKTRGSKWMDRF 180  
QY 181 LNRFLHGEPEASTQMTQNYQDSPTLQAPRGRASEPKHKTRQ 223  
DB 181 LNRFLHGEPEASTQMTQNYQDSPTLQAPRGRASEPKHKTRQ 223

RESULT 11  
ABU81558  
ID ABU81558 standard; protein; 223 AA.  
AC ABU81558;  
XX  
XX  
DT 24-JUN-2003 (first entry)  
XX  
XX  
DE Human secreted polypeptide PRO4408.  
XX  
KW Human; inflammatory disease; organ failure; atherosclerosis; cancer;  
KW cardiac injury; infertility; birth defect; premature aging; AIDS;  
KW differentiation disorder; cell adhesion disorder; skin disorder;  
KW neural receptor disorder; diabetic complication; tissue typing.  
XX  
OS Homo sapiens.  
XX  
PN US2002192751-A1.  
XX  
PD 19-DEC-2002.  
XX  
PF 26-DEC-2001; 2001US-00036041.  
XX  
XX 15-MAY-1998; 98US-0085579P.  
PR 15-DEC-1998; 98US-0112514P.  
PR 22-DEC-1998; 98US-0113300P.  
PR 23-DEC-1998; 98US-0113430P.  
PR 23-DEC-1998; 98US-0113605P.  
PR 23-DEC-1998; 98US-0113621P.  
PR 23-DEC-1998; 98US-0114140P.  
PR 12-JAN-1999; 98US-0115552P.  
PR 22-JAN-1999; 98US-0116843P.  
PR 23-MAR-1999; 98US-0125774P.  
PR 23-MAR-1999; 98US-0125778P.  
PR 24-MAR-1999; 98US-0125826P.  
PR 31-MAR-1999; 98US-0127035P.  
PR 05-APR-1999; 98US-0127706P.  
PR 13-APR-1999; 98US-0129122P.  
PR 21-APR-1999; 98US-0130359P.  
PR 27-APR-1999; 98US-0131270P.  
PR 27-APR-1999; 98US-0131272P.  
PR 27-APR-1999; 98US-0131291P.  
PR 04-MAY-1999; 98US-0132371P.  
PR 04-MAY-1999; 98US-0132379P.  
PR 04-MAY-1999; 98US-0132383P.  
PR 14-MAY-1999; 98US-0135703P.  
PR 15-MAY-1999; 98US-0135750P.  
PR 08-JUN-1999; 98US-0138166P.  
PR 20-JUL-1999; 98US-0144791P.  
PR 03-AUG-1999; 98US-0146970P.  
PR 29-OCT-1999; 98US-0162508P.  
PR 02-DEC-1999; 98US-0162551P.  
PR 22-DEC-1999; 98US-0162551P.  
PR 01-MAR-2000; 2000US-0005601.  
PR 02-MAR-2000; 2000US-0005841.  
PR 22-MAY-2000; 2000US-014042.  
PR 02-JUN-2000; 2000US-015284.  
PR 23-AUG-2000; 2000US-023522.  
PR 24-AUG-2000; 2000US-023328.  
PR 01-DEC-2000; 2000US-032678.  
PR 20-DEC-2000; 2000US-034956.  
PR 28-FEB-2001; 2001US-0006520.  
PR 01-JUN-2001; 2001US-00017800.

PR 20-JUN-2001; 2001US-0019592.  
PR 29-JUN-2001; 2001US-0021066.  
PR 09-JUL-2001; 2001US-0021735.  
PR 16-AUG-2001; 2001US-00931836.  
XX  
XX (GETH ) GENENTECH INC.  
XX  
XX Desnoyers L, Eaton DL, Goddard A, Godowski PJ, Gurney AL, Pan J;  
PI Stewart TA, Watanabe CK, Wood WI, Zhang Z;  
XX  
XX WPI; 2003-341079/32.  
DR N-PSDB; ACA67736.  
XX  
XX New secreted and transmembrane nucleic acids and polypeptides, designated  
PT as PRO, useful for treating inflammation, organ failure, atherosclerosis,  
PT cardiac injury, infertility, birth defects, premature aging, AIDS, or  
PT cancer.  
XX  
XX Claim 12; Fig 30; 195pp; English.  
XX  
XX The invention relates to an isolated nucleic acid that encodes a PRO  
CC polypeptide. The nucleic acids and polypeptides are useful for treating  
CC inflammatory diseases, organ failure, atherosclerosis, cardiac injury,  
CC infertility, birth defects, premature aging, acquired immunodeficiency  
CC syndrome (AIDS), cancer, differentiation disorders, cell adhesion  
CC disorders, neural receptor disorders, skin disorders or diabetic  
CC complications. The nucleic acids are useful as hybridisation probes, in  
CC chromosome and gene mapping and in generating antisense RNA or DNA. The  
CC polypeptides are useful as pharmaceuticals, diagnostics, biosensors or  
CC bioreactors. Both are useful in tissue typing. The present sequence  
CC represents the amino acid sequence of a PRO polypeptide of the invention  
XX  
XX Sequence 223 AA;  
SQ

Query Match 100.0%; Score 223; DB 6; Length 223;  
Best Local Similarity 100.0%; Pred. No. 3.5e-214;  
Matches 223; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGWTMLVTAALLGLMMVVTGDENSPCAHEALLDEDTLFCQGLEVFYFELGNIGCKV 60  
DB 1 MGWTMLVTAALLGLMMVVTGDENSPCAHEALLDEDTLFCQGLEVFYFELGNIGCKV 60  
QY 61 VPCNNYRQKITSWMEPIVKFPGAVDGTATYILVMVDPDAPRAEPRQRFWRHLVTDIKG 120  
DB 61 VPCNNYRQKITSWMEPIVKFPGAVDGTATYILVMVDPDAPRAEPRQRFWRHLVTDIKG 120  
QY 121 ADLKKGKIQQGELSAYQAPSPAHSGFHRHYOFFVYVLOEGKVISLLPKENKTRGSKWMDRF 180  
DB 121 ADLKKGKIQQGELSAYQAPSPAHSGFHRHYOFFVYVLOEGKVISLLPKENKTRGSKWMDRF 180  
QY 181 LNRFLHGEPEASTQMTQNYQDSPTLQAPRGRASEPKHKTRQ 223  
DB 181 LNRFLHGEPEASTQMTQNYQDSPTLQAPRGRASEPKHKTRQ 223

RESULT 12  
ADA76586  
ID ADA76586 standard; protein; 223 AA.  
XX  
XX ADA76586;  
AC  
XX  
XX 20-NOV-2003 (first entry)  
XX  
XX Novel human secreted and transmembrane protein PRO4408.  
XX  
XX human; secreted and transmembrane protein; PRO; tumour; gene therapy;  
KW tissue typing; chromosome identification; cytostatic.  
XX  
XX Homo sapiens.  
XX  
XX US2003036114-A1.  
XX  
XX 20-FEB-2003.  
PD

XX 26-DEC-2001; 2001US-00035719.  
XX  
XX 15-MAY-1998; 98US-0085579P.  
PR 15-DEC-1998; 98US-0112514P.  
PR 22-DEC-1998; 98US-0113300P.  
PR 23-DEC-1998; 98US-0113430P.  
PR 23-DEC-1998; 98US-0113605P.  
PR 23-DEC-1998; 98US-0113621P.  
PR 23-DEC-1998; 98US-0114140P.  
PR 12-JAN-1999; 99US-0115552P.  
PR 22-JAN-1999; 99US-0116843P.  
PR 23-MAR-1999; 99US-0125774P.  
PR 23-MAR-1999; 99US-0125779P.  
PR 24-MAR-1999; 99US-0125826P.  
PR 31-MAR-1999; 99US-0127033P.  
PR 05-APR-1999; 99US-0127708P.  
PR 13-APR-1999; 99US-0129122P.  
PR 21-APR-1999; 99US-0130359P.  
PR 27-APR-1999; 99US-0131270P.  
PR 27-APR-1999; 99US-0131272P.  
PR 27-APR-1999; 99US-0131291P.  
PR 04-MAY-1999; 99US-0132371P.  
PR 04-MAY-1999; 99US-0132379P.  
PR 04-MAY-1999; 99US-0132383P.  
PR 14-MAY-1999; 99US-0132703P.  
PR 25-MAY-1999; 99US-0135750P.  
PR 08-JUN-1999; 99US-0138166P.  
PR 20-JUL-1999; 99US-0144791P.  
PR 03-AUG-1999; 99US-0146970P.  
PR 29-OCT-1999; 99US-0162506P.  
PR 02-DEC-1999; 99US-028551.  
PR 22-DEC-1999; 99US-030720.  
PR 01-MAR-2000; 2000US-005601.  
PR 02-MAR-2000; 2000US-005841.  
PR 22-MAY-2000; 2000US-0014042.  
PR 02-JUN-2000; 2000US-0015264.  
PR 23-AUG-2000; 2000US-0023522.  
PR 24-AUG-2000; 2000US-0023328.  
PR 01-DEC-2000; 2000US-0032678.  
PR 20-DEC-2000; 2000US-0034956.  
PR 28-FEB-2001; 2001US-0006520.  
PR 01-JUN-2001; 2001US-0017800.  
PR 20-JUN-2001; 2001US-0019692.  
PR 29-JUN-2001; 2001US-0021066.  
PR 09-JUL-2001; 2001US-0021735.  
PR 16-AUG-2001; 2001US-00931836.  
XX  
XX (GETH ) GENENTECH INC.  
XX  
XX Desnoyers L, Eaton DL, Goddard A, Godowski PJ, Gurney AL, Pan J;  
PI Stewart TA, Watanabe CK, Wood WI, Zhang Z;  
XX  
XX WPI; 2003-615764/58.  
XX N-PSDB; ADA76585.  
XX  
XX Novel isolated secreted and transmembrane polypeptides, designated as PRO  
PT polypeptides e.g. PRO1494, PRO4334 and PRO1122, useful for inhibiting  
PT tumor cell growth, and for preparing medicaments for therapeutic use.  
XX  
XX Claim 12; Fig 30; 201pp; English.  
XX  
XX The invention describes an isolated secreted and transmembrane PRO  
CC polypeptide (I), having at least 80% identity to or scoring at least 80%  
CC positives when compared to, a sequence (S1) comprising 246, 440, 197, 97,  
CC 273, 571, 209, 888, 502, 310, 251, 800, 507, 248, 223, 134, 136, 468,  
CC 328, 221, 194, 899, or 339 amino acids fully defined in the  
CC specification. An anti-(I)-antibody is useful for determining the  
CC presence of (I) in a cell. (I) is useful for identifying a compound  
CC capable of inhibiting the expression and/or activity of (I). (I) and the  
CC antibody are useful for inhibiting the growth of tumor cells, and for  
CC the preparation of a medicament useful in the treatment of a condition  
CC which is responsive to (I) or the antibody. A polynucleotide (II)

CC encoding (I) is also useful for isolating full-length PRO cDNA for  
CC generating transgenic animals or knock-out animals, which are, in turn,  
CC are useful in the development in the screening of therapeutically useful  
CC reagents, and in gene therapy. PRO is useful in assays to identify other  
CC proteins or molecules involved in binding interactions, for screening  
CC inhibitors or agonists of binding interactions and for screening chemical  
CC libraries. (I) is useful as molecular weight marker for protein  
CC electrophoresis, and as therapeutic agents. (I) or (II) is useful for  
CC tissue typing and for chromosome identification. Ab is useful in  
CC diagnostic assays for PRO, in affinity purification of PRO, and for  
CC detection of PRO in biological samples. This is the amino acid sequence  
CC of a novel human secreted and transmembrane PRO polypeptide.  
XX  
SQ Sequence 223 AA;  
Query Match 100.0%; Score 223; DB 6; Length 223;  
Best Local Similarity 100.0%; Pred.No. 3.5e-214; Indels 0; Gaps 0;  
Matches 223; Conservative 0; Mismatches 0;  
QY 1 MGTWRLVTAALLGLMMVVTGDEDENSPCAHEALLDEDTLFCQGLEVFYFELGNGCKV 60  
DB 1 MGTWRLVTAALLGLMMVVTGDEDENSPCAHEALLDEDTLFCQGLEVFYFELGNGCKV 60  
QY 61 VPDCCNRYRQKITSWMEPIVKFPGAVDGYATYILVMVDPDAPRAEPQRFWRHLVTDIKG 120  
DB 61 VPDCCNRYRQKITSWMEPIVKFPGAVDGYATYILVMVDPDAPRAEPQRFWRHLVTDIKG 120  
QY 121 ADLKKGIQOGLSAYQAPSPAHSGPHRYOFFVYLOEGKVISLLPKENKTRGSKMDRF 180  
DB 121 ADLKKGIQOGLSAYQAPSPAHSGPHRYOFFVYLOEGKVISLLPKENKTRGSKMDRF 180  
QY 181 LNRFLGPEASTQFMQNYQDSPTLQAPRGRASEPKHKTRQ 223  
DB 181 LNRFLGPEASTQFMQNYQDSPTLQAPRGRASEPKHKTRQ 223  
RESULT 13  
ABJ72343  
ID ABJ72343 standard; protein; 223 AA.  
XX  
XX AC ABJ72343;  
XX  
XX DT 06-NOV-2003 (first entry)  
XX  
XX DE Human PRO4408 protein.  
XX  
XX KW PRO; proliferation; pericyte cell; TNF-alpha; blood; chondrocyte;  
KW differentiation; dermal fibroblast; tumour; gene therapy; cytostatic.  
XX  
XX OS Homo sapiens.  
XX  
XX PN US2003050448-A1.  
XX  
XX PD 13-MAR-2003.  
XX  
XX PF 28-AUG-2002; 2002US-00230414.  
XX  
XX PR 01-JUN-2001; 2001US-0017800.  
XX  
XX PR 29-JUN-2001; 2001US-0021066.  
XX  
XX PR 09-APR-2002; 2002US-00119480.  
XX  
XX (GETH ) GENENTECH INC.  
XX  
XX Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;  
PI Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;  
XX  
XX WPI; 2003-521818/49.  
XX N-PSDB; ABT44341.  
XX  
XX New nucleic acid encoding for a PRO protein, useful for the manufacture  
PT of a medicament for diagnosing or treating tumors or for measuring or  
PT detecting expression of an associated gene.  
XX



PS Claim 11; Fig 232; 315pp; English.

XX The invention relates to a novel isolated nucleic acid encoding a fully defined PRO polypeptide. The molecules of the invention may be useful for stimulating proliferation or gene expression in pericyte cells or the release of TNF-alpha from human blood. Other possible uses include the stimulation or inhibition of chondrocyte proliferation or differentiation, the stimulation of human dermal fibroblast cell proliferation and the detection of the presence of a tumour within a mammal. Furthermore, the nucleic acid may be useful for the manufacture of a medicament for diagnosing or treating a tumour within a mammal or for measuring or detecting the expression of an associated gene, as well as during gene therapy. The current sequence is that of the human PRO protein of the invention

XX Sequence 223 AA;

Query Match 100.0%; Score 223; DB 6; Length 223;  
Best Local Similarity 100.0%; Pred. No. 3.5e-214; Mismatches 0; Gaps 0;  
Matches 223; Conservative 0; Indels 0; Gaps 0;

Qy 1 MGWTMRLVTAALLGLMMVVTGDEDENSPCAHEALLDEDTLFCQGLEVFYFPELGNIGCKV 60  
Db 1 MGWTMRLVTAALLGLMMVVTGDEDENSPCAHEALLDEDTLFCQGLEVFYFPELGNIGCKV 60

Qy 61 VPDCCNYRQKITSWMEPIVKFPGAVDGYTILVMVDPDAPSAEPRQRFWRHLVTDIKG 120  
Db 61 VPDCCNYRQKITSWMEPIVKFPGAVDGYTILVMVDPDAPSAEPRQRFWRHLVTDIKG 120

Qy 121 ADLKKGKIQQGELSAYQAPSPPAHSGFHRHYQFFVYLBQEGKVISLLPKENKTRGSKWMDRF 180  
Db 121 ADLKKGKIQQGELSAYQAPSPPAHSGFHRHYQFFVYLBQEGKVISLLPKENKTRGSKWMDRF 180

Qy 181 LNRFLHGEPEASTQFMTQNYQDSPTLQAPRGRASEPKHKTRQ 223  
Db 181 LNRFLHGEPEASTQFMTQNYQDSPTLQAPRGRASEPKHKTRQ 223

RESULT 14  
ABJ72471

ID ABJ72471 standard; protein; 223 AA.

XX AC ABJ72471;

XX 06-NOV-2003 (first entry)

XX Human PRO4408 protein.

XX PRO; blood; proliferation; pericyte cell; TNF alpha; chondrocyte;  
KW tumour necrosis factor; proliferation; differentiation; gene therapy;  
KW dermal fibroblast.

XX Homo sapiens.

XX US2003027988-A1.

XX 06-FEB-2003.

XX 26-AUG-2002; 2002US-00227884.

XX 01-JUN-2001; 2001WO-US017800.

XX 29-JUN-2001; 2001WO-US021066.

XX 09-APR-2002; 2002US-00119480.

XX (GETH ) GENENTECH INC.

XX Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;  
PI Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;  
XX WPI; 2003-503301/47.  
DR N-PSDB; ABT44624.

XX New PRO protein encoding nucleic acid, useful for preparing PRO

PT polypeptides and anti-PRO antibodies for detecting the presence of a tumor in a mammal.

XX Claim 11; Fig 232; 324pp; English.

XX The invention relates to a novel isolated PRO protein encoding nucleic acid. The nucleic acid of the invention may be useful for preparing PRO polypeptides and anti-PRO antibodies for detecting the presence of a tumor in a mammal. Furthermore, the molecules of the invention may be useful for stimulating proliferation or gene expression in pericyte cells, the release of tumour necrosis factor (TNF)-alpha from human blood, the proliferation or differentiation of chondrocyte cells and for inhibiting the proliferation of normal human dermal fibroblast cells. Finally, the molecules may be utilised during gene therapy. The current sequence is that of the human PRO protein of the invention

XX Sequence 223 AA;

Query Match 100.0%; Score 223; DB 6; Length 223;  
Best Local Similarity 100.0%; Pred. No. 3.5e-214; Mismatches 0; Gaps 0;  
Matches 223; Conservative 0; Indels 0; Gaps 0;

Qy 1 MGWTMRLVTAALLGLMMVVTGDEDENSPCAHEALLDEDTLFCQGLEVFYFPELGNIGCKV 60  
Db 1 MGWTMRLVTAALLGLMMVVTGDEDENSPCAHEALLDEDTLFCQGLEVFYFPELGNIGCKV 60

Qy 61 VPDCCNYRQKITSWMEPIVKFPGAVDGYTILVMVDPDAPSAEPRQRFWRHLVTDIKG 120  
Db 61 VPDCCNYRQKITSWMEPIVKFPGAVDGYTILVMVDPDAPSAEPRQRFWRHLVTDIKG 120

Qy 121 ADLKKGKIQQGELSAYQAPSPPAHSGFHRHYQFFVYLBQEGKVISLLPKENKTRGSKWMDRF 180  
Db 121 ADLKKGKIQQGELSAYQAPSPPAHSGFHRHYQFFVYLBQEGKVISLLPKENKTRGSKWMDRF 180

Qy 181 LNRFLHGEPEASTQFMTQNYQDSPTLQAPRGRASEPKHKTRQ 223  
Db 181 LNRFLHGEPEASTQFMTQNYQDSPTLQAPRGRASEPKHKTRQ 223

RESULT 15  
ABO34366

ID ABO34366 standard; protein; 223 AA.

XX AC ABO34366;

XX 19-SEP-2003 (first entry)

XX Human secreted/transmembrane polypeptide PRO 4405.

XX Human; chondrocyte stimulation; TNF-alpha stimulation; gene therapy;  
KW human dermal fibroblast stimulation; tumour; tissue typing;  
KW affinity purification.

XX Homo sapiens.

XX US200304934-A1.

XX 06-MAR-2003.

XX 28-AUG-2002; 2002US-00230338.

XX 01-JUN-2001; 2001WO-US017800.

XX 29-JUN-2001; 2001WO-US021066.

XX 09-APR-2002; 2002US-00119480.

XX (GETH ) GENENTECH INC.

XX Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;  
PI Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;  
XX WPI; 2003-492274/46.  
DR N-PSDB; ACD82291.

PT New transmembrane polypeptides and nucleic acids encoding the  
PT polypeptides, useful in gene therapy, in chromosome identification, as  
XX chromosome markers, or in generating probes.  
PS Claim 19; Fig 232; 315pp; English.  
XX  
CC The invention relates to an isolated nucleic acid encoding a PRO  
CC polypeptide. Nucleic acids that encode PRO can be used to generate either  
CC transgenic animals or knock-out animals useful in developing and  
CC screening of therapeutically useful reagents. The nucleic acids may also  
CC be used in gene therapy for replacing defective gene, in chromosome  
CC identification, as chromosome markers, or in generating probes to isolate  
CC full length PRO cDNA. The PRO polypeptides are useful for chondrocyte  
CC stimulation, TNF-alpha stimulation, human dermal fibroblasts stimulation  
CC and for detecting the presence of tumour in an animal. The PRO  
CC polypeptides are useful as molecular markers for protein electrophoresis  
CC and the isolated nucleic acids may be used for recombinantly expressing  
CC those markers. The PRO polypeptides and nucleic acids may also be used in  
CC tissue typing. Anti-PRO antibodies are useful in diagnostic assays for  
CC PRO and in affinity purification of PRO from recombinant cell culture or  
CC natural sources. The present sequence represents the amino acid sequence  
XX of a human secreted/transmembrane PRO polypeptide  
SQ Sequence 223 AA;

Query Match 100.0%; Score 223; DB 6; Length 223;  
Best Local Similarity 100.0%; Pred. No. 3.5e-214; Mismatches 0; Gaps 0;  
Matches 223; Conservative 0; Indels 0; Gaps 0;  
QY 1 MCGTMRVLTAALLGLMMVVTGDEDENSPCAHEALLDEDTLFCQGLEVFYFPELGNIGCKV 60  
DB 1 MCGTMRVLTAALLGLMMVVTGDEDENSPCAHEALLDEDTLFCQGLEVFYFPELGNIGCKV 60  
QY 61 VPDCNNYRQKITSWMEPIVKFPGAVDGYTILVMVDPDAPSAEPRQRFWRHLVTDIKG 120  
DB 61 VPDCNNYRQKITSWMEPIVKFPGAVDGYTILVMVDPDAPSAEPRQRFWRHLVTDIKG 120  
QY 121 ADLKGKIQGQELSAVQAPSPPAHSGFHRYPFVYLQEGKVISLLPKENKTRGSKWMDRF 180  
DB 121 ADLKGKIQGQELSAVQAPSPPAHSGFHRYPFVYLQEGKVISLLPKENKTRGSKWMDRF 180  
QY 181 LNRFHLEPEASTQFMTQNYQDSPTLQAPRGRASEPKHKTRQ 223  
DB 181 LNRFHLEPEASTQFMTQNYQDSPTLQAPRGRASEPKHKTRQ 223

Search completed: January 31, 2005, 15:17:05  
Job time : 228 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: January 31, 2005, 15:11:04 ; Search time 16 Seconds  
(without alignments)  
1341.021 Million cell updates/sec

Title: US-10-035-958-61  
Perfect score: 223  
Sequence: 1 MGWTRLVTAALLGLMMV.....PTLQAPRGRASEPKHKTRQR 223

Scoring table: OLIGO

Gapop 60.0 , Gapext 60.0

Searched: 283416 seqs, 96216763 residues

Word size : 6

Total number of hits satisfying chosen parameters: 979

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 1500 summaries

Database : PIR\_79.\*

1: pir1.\*

2: pir2.\*

3: pir3.\*

4: pir4.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	8	3.6	319	2 AH1247	hypothetical prote
2	8	3.6	439	2 F84278	3-phosphoshikimate
3	8	3.6	1551	1 A43364	M polyprotein prec
4	7	3.1	24	2 S10682	cytochrome P450 is
5	7	3.1	24	2 S10681	probable 7-ethoxyc
6	7	3.1	26	2 A61056	aminopyrine N-deme
7	7	3.1	26	2 B44107	cytochrome P450 NF
8	7	3.1	28	2 S29135	aminopyrine N-deme
9	7	3.1	28	2 S29136	aminopyrine N-deme
10	7	3.1	109	2 C83344	hypothetical prote
11	7	3.1	110	2 S40503	beta-1-adrenergic
12	7	3.1	119	2 A83896	hypothetical prote
13	7	3.1	122	2 T52448	flowering locus T
14	7	3.1	134	2 PC4214	phosphatidylethano
15	7	3.1	140	2 A38845	flagellar protein
16	7	3.1	152	2 D97462	hypothetical prote
17	7	3.1	152	2 AF2680	transcription regu
18	7	3.1	152	2 PC4216	phosphatidylethano
19	7	3.1	152	2 A44947	16k antigen precu
20	7	3.1	175	2 T52446	FT protein homolog
21	7	3.1	175	2 T52447	FT protein [valida
22	7	3.1	186	2 S00056	basic cytosolic pr
23	7	3.1	186	2 S18358	23K protein - rat
24	7	3.1	187	2 S46485	phosphatidylethano
25	7	3.1	187	2 I53745	phosphatidylethano
26	7	3.1	187	2 A36126	23K phosphatidyle
27	7	3.1	190	2 T08258	conserved hypothet
28	7	3.1	194	2 S77566	hypothetical prote
29	7	3.1	195	2 C75490	hypothetical prote

hypothetical prote  
TF81 related prote  
hypothetical prote  
hypothetical prote  
two-component resp  
hypothetical prote  
integral membrane  
probable ABC-trans  
hypothetical prote  
probable lipoprote  
lic-1 protein B -  
hypothetical prote  
conserved hypothet  
wnt-6 protein - mo  
soluble-type glyco  
ubiquinol-cytochro  
ornithine carbamoy  
hypothetical prote  
hypothetical prote  
macrolide 3-O-acyl  
probable MFS trans  
membrane protein,  
probable membrane  
tetrahydrofolylpol  
conserved hypothet  
probable oxidoredu  
fumarate hydratase  
fumarate hydratase  
hypothetical prote  
probable phospho-s  
hypothetical prote  
amino acid transpo  
hypothetical prote  
amino acid ABC tra  
UDP-N-acetylmurano  
meso-diaminopimela  
meso-diaminopimela  
hypothetical prote  
probable integral  
probable MFS trans  
laccase (EC 1.10.3  
Na+/H+ antiporter  
hypothetical prote  
membrane transloca  
probable sodium/hy  
h+-transporting AT  
probable DNA-direc  
probable thyroid r  
probable two-compo  
hypothetical prote  
zinc finger RNA bi  
zinc metalloprotei  
hypothetical prote  
glyceraldehyde-3-p  
benzphetamine N-de  
ribosomal protein  
hypothetical prote  
hypothetical prote  
conserved domain p  
hypothetical prote  
hypothetical prote  
NADH2 dehydrogenas  
trad protein - Agr  
probable molybdopt  
molybdopterin conv  
oxaloacetate decar  
conjugal transfer  
hypothetical prote  
sodium ion pump ox  
gonadoliberin II p  
hypothetical prote  
hypothetical prote  
conserved hypothet

103	6	2.7	99	2	D83129	hypothetical prote	176	6	2.7	174	2	T35197	probable integral
104	6	2.7	100	2	G35587	hypothetical prote	177	6	2.7	176	2	A40464	odorant-binding pr
105	6	2.7	100	2	B33998	hypothetical prote	178	6	2.7	176	2	AE0335	conserved hypothet
106	6	2.7	102	2	T36095	hypothetical prote	179	6	2.7	176	2	S39863	hypothetical prote
107	6	2.7	104	2	S57666	protein 2 - rat	180	6	2.7	178	2	C71686	cytochrome C oxida
108	6	2.7	105	2	H82771	proteic killer sup	181	6	2.7	180	2	T41300	protein involved i
109	6	2.7	108	2	AG1874	hypothetical prote	182	6	2.7	180	2	F83252	hypothetical prote
110	6	2.7	115	2	T51382	hypothetical prote	183	6	2.7	181	2	S65230	hypothetical prote
111	6	2.7	117	2	C72691	hypothetical prote	184	6	2.7	184	2	T38315	very hypothetical
112	6	2.7	118	2	S77161	hypothetical prote	185	6	2.7	186	2	S35057	NADH2 dehydrogenas
113	6	2.7	118	2	D83901	hypothetical prote	186	6	2.7	189	1	VCWPTM	coat protein - tur
114	6	2.7	120	2	T44554	hypothetical prote	187	6	2.7	189	2	F75358	conserved hypothet
115	6	2.7	121	2	C75439	hypothetical prote	188	6	2.7	189	2	I69674	transposase - Esch
116	6	2.7	122	2	T04090	probable thioredox	189	6	2.7	191	2	A72536	hypothetical prote
117	6	2.7	122	2	AE1477	hypothetical prote	190	6	2.7	192	2	B83948	phosphatidylglycer
118	6	2.7	124	2	I54768	epididymis-specifi	191	6	2.7	192	2	E70459	acetylactate synth
119	6	2.7	124	2	C81707	hypothetical prote	192	6	2.7	192	2	JH0171	visinin - chicken
120	6	2.7	125	2	S04936	Ig kappa chain pre	193	6	2.7	192	2	E71361	fibroblast growth
121	6	2.7	129	2	S76956	hypothetical prote	194	6	2.7	192	2	T50710	hypothetical prote
122	6	2.7	130	2	PL0113	Ig kappa chain pre	195	6	2.7	194	2	H83374	hypothetical prote
123	6	2.7	133	1	S24315	motilin precursor	196	6	2.7	196	2	T26943	hypothetical prote
124	6	2.7	134	2	T13292	repressor protein	197	6	2.7	196	2	S35284	eas protein - phag
125	6	2.7	135	2	F71913	hypothetical prote	198	6	2.7	197	2	T41529	hypothetical prote
126	6	2.7	136	2	S78390	ribosomal protein	199	6	2.7	198	2	T17516	hypothetical prote
127	6	2.7	137	1	Q0BED9	HHLF3 protein - hu	200	6	2.7	198	2	A71225	probable ribosomal
128	6	2.7	138	2	A26182	gastrin-releasing	201	6	2.7	200	2	G71270	hypothetical prote
129	6	2.7	138	2	S24070	envelope protein -	202	6	2.7	200	2	H70012	biotin metabolism
130	6	2.7	138	2	S24104	envelope protein -	203	6	2.7	200	2	C95204	mechanosensitive i
131	6	2.7	139	1	H64005	conserved hypothet	204	6	2.7	201	2	C98071	hypothetical prote
132	6	2.7	140	2	T44716	hypothetical prote	205	6	2.7	201	2	JC4389	5-formyltetrahydro
133	6	2.7	141	2	D69857	conserved hypothet	206	6	2.7	203	2	F84184	hypothetical prote
134	6	2.7	146	2	T36436	probable gntR-fam1	207	6	2.7	204	2	G69379	conserved hypothet
135	6	2.7	148	1	B26182	gastrin-releasing	208	6	2.7	205	2	B75505	conserved hypothet
136	6	2.7	150	2	B71329	probable flagellar	209	6	2.7	206	2	B82366	conserved hypothet
137	6	2.7	151	2	H81271	probable acetyl-Co	210	6	2.7	207	2	AG2405	hypothetical prote
138	6	2.7	151	2	E69134	conserved hypothet	211	6	2.7	209	2	C83360	hypothetical prote
139	6	2.7	151	2	S37012	transposase (clone	212	6	2.7	211	2	E42507	hypothetical prote
140	6	2.7	151	2	F69744	hypothetical prote	213	6	2.7	212	2	A36213	F9L protein - vacc
141	6	2.7	155	2	B72611	probable molybdenu	214	6	2.7	212	2	T36840	F9L protein - vacc
142	6	2.7	156	1	YN5C	cyanate hydratase	215	6	2.7	212	2	T28471	C13L protein - var
143	6	2.7	156	2	C83390	cyanate lyase PA20	216	6	2.7	212	2	G26154	hypothetical prote
144	6	2.7	156	2	A99678	cyanate aminohydro	217	6	2.7	212	2	E82651	E9L protein - vari
145	6	2.7	156	2	E85528	cyanate aminohydro	218	6	2.7	213	2	E82648	hypothetical prote
146	6	2.7	156	2	T47543	hypothetical prote	219	6	2.7	213	2	F83208	hypothetical prote
147	6	2.7	157	2	B69221	conserved hypothet	220	6	2.7	214	2	F83208	conserved hypothet
148	6	2.7	158	2	H71902	phosphatidylglycer	221	6	2.7	218	2	F83857	phosphoribosyl ant
149	6	2.7	158	2	A64612	conserved hypothet	222	6	2.7	218	2	T01686	translation initia
150	6	2.7	158	2	C70778	hypothetical prote	223	6	2.7	219	2	S18843	TFS1 protein - yea
151	6	2.7	159	2	F69464	acetylactate synth	224	6	2.7	219	2	G87708	hypothetical prote
152	6	2.7	159	2	D87586	hypothetical prote	225	6	2.7	221	2	D97161	probable enzyme wi
153	6	2.7	160	1	S26194	plastoquinol-plast	226	6	2.7	225	2	T05514	hypothetical prote
154	6	2.7	160	2	I84444	eosinophil-derived	227	6	2.7	227	2	AF0297	multiple antibioti
155	6	2.7	160	2	I61895	eosinophil cationi	228	6	2.7	229	2	C86809	hypothetical prote
156	6	2.7	160	2	I37033	eosinophil cationi	229	6	2.7	231	2	S33470	chlorophyll a/b-bi
157	6	2.7	160	2	I61899	eosinophil cationi	230	6	2.7	231	2	S46420	chlorophyll a/b/c-
158	6	2.7	160	2	JL0106	eosinophil cationi	231	6	2.7	231	2	S34183	chlorophyll a/b/c-
159	6	2.7	160	2	C86458	unknown protein, 6	232	6	2.7	231	2	S46421	hypothetical prote
160	6	2.7	160	2	S60172	potassium channel,	233	6	2.7	235	2	B70530	probable membrane
161	6	2.7	161	2	H82696	rod shape-determin	234	6	2.7	235	2	AF0598	hypothetical prote
162	6	2.7	161	2	H71959	hypothetical prote	235	6	2.7	237	1	B64142	MYB27 protein - Ar
163	6	2.7	162	1	G69552	hypothetical prote	236	6	2.7	238	2	T46166	V protein - Newcas
164	6	2.7	162	2	H75435	hypothetical prote	237	6	2.7	238	2	J02393	hypothetical prote
165	6	2.7	164	2	AG2655	conserved hypothet	238	6	2.7	238	2	D83754	hypothetical prote
166	6	2.7	165	2	S41728	actin depolymerizi	239	6	2.7	240	2	S75017	transcription regu
167	6	2.7	165	2	E86537	hypothetical prote	240	6	2.7	240	2	AD1552	ribosomal protein
168	6	2.7	165	2	D72085	hypothetical prote	241	6	2.7	242	2	S40771	hypothetical prote
169	6	2.7	165	2	G83166	18.2K protein - ph	242	6	2.7	242	2	C83230	Schwannoma-derived
170	6	2.7	166	2	A40783	conserved hypothet	243	6	2.7	243	2	S13296	hypothetical prote
171	6	2.7	168	2	G75525	hypothetical prote	244	6	2.7	243	2	T50399	hypothetical prote
172	6	2.7	168	2	C82417	hypothetical prote	245	6	2.7	246	2	H27332	probable capsule b
173	6	2.7	169	2	A33141	hypothetical prote	246	6	2.7	246	2	H22014	hypothetical prote
174	6	2.7	169	2	T51398	hypothetical prote	247	6	2.7	247	2	T23759	hypothetical prote
175	6	2.7	173	2	H72659	hypothetical prote	248	6	2.7	248	2		

249	6	2.7	248	2	JC2581	14-3-3 protein - C	322	6	2.7	307	2	G87255	hypothetical prote
250	6	2.7	249	2	T30276	hypothetical prote	323	6	2.7	308	2	G64401	hypothetical prote
251	6	2.7	250	2	G87576	PhoH-related prote	324	6	2.7	308	2	B95859	conserved hypothet
252	6	2.7	251	1	E69978	conserved hypothet	325	6	2.7	308	2	AF2326	permease protein o
253	6	2.7	251	2	T36229	probable gntR-fam	326	6	2.7	309	2	S52256	copper export prot
254	6	2.7	251	2	B98312	probable glutamine	327	6	2.7	310	2	A86469	protein F12K21.18
255	6	2.7	251	2	AH2970	conserved hypothet	328	6	2.7	310	2	AG2851	hypothetical prote
256	6	2.7	251	2	C97437	hypothetical prote	329	6	2.7	310	2	B83912	ABC transporter (A
257	6	2.7	252	2	I46859	MHC RLA - rabbit (	330	6	2.7	311	2	E95865	probable CbbX prot
258	6	2.7	252	2	AB1030	probable membrane	331	6	2.7	313	2	F75251	cytochrome C oxida
259	6	2.7	254	2	S17287	beta-lactamase (EC	332	6	2.7	314	1	J00121	2-desacetyl-2-hydr
260	6	2.7	254	2	F69547	nucleotide-binding	333	6	2.7	314	2	S75237	hypothetical prote
261	6	2.7	256	2	D87298	enoyl-CoA hydratase	334	6	2.7	314	2	G90191	conserved hypothet
262	6	2.7	257	2	C69230	conserved hypothet	335	6	2.7	315	2	T07314	cytochrome c-type
263	6	2.7	259	2	D82960	conserved hypothet	336	6	2.7	315	2	D64458	branched-chain ami
264	6	2.7	260	2	S55046	ABC-type transport	337	6	2.7	315	2	B99938	hypothetical prote
265	6	2.7	263	2	I40199	transposase - Bact	338	6	2.7	315	2	S74357	hypothetical prote
266	6	2.7	267	2	AB2933	hypothetical prote	339	6	2.7	318	2	T07095	2'-hydroxyisoflavo
267	6	2.7	267	2	E98349	hypothetical prote	340	6	2.7	319	2	D83537	probable oxidoredu
268	6	2.7	269	2	T04095	ribonuclease S hom	341	6	2.7	321	1	LNHUR	IGF Fc receptor II
269	6	2.7	269	2	AE3455	arginine-binding p	342	6	2.7	321	2	E71679	D-alanine-D-alanin
270	6	2.7	270	2	G90595	conserved hypothet	343	6	2.7	321	2	T22961	hypothetical prote
271	6	2.7	271	2	E86467	probable peroxidas	344	6	2.7	322	2	B70957	probable spha prot
272	6	2.7	272	2	AF2763	hypothetical prote	345	6	2.7	322	2	T07924	probable starch sy
273	6	2.7	273	2	T11705	NADH2 dehydrogenas	346	6	2.7	322	2	T35646	probable thiamin m
274	6	2.7	273	2	C84075	ABC transporter (s	347	6	2.7	322	2	G98230	exov protein (Z226
275	6	2.7	274	2	F86762	NAD+ synthase (glu	348	6	2.7	322	2	AF3055	succinoglycan bios
276	6	2.7	274	2	AE3387	sec-independent pr	349	6	2.7	323	2	T12356	NADH2 dehydrogenas
277	6	2.7	275	2	T48436	hypothetical prote	350	6	2.7	323	2	A48997	tumor surface anti
278	6	2.7	278	2	E75546	conserved hypothet	351	6	2.7	323	2	G87358	dienelactone hydro
279	6	2.7	279	2	T17781	chologlycine hyd	352	6	2.7	323	2	AG1378	B. subtilis ferric
280	6	2.7	280	2	T25898	hypothetical prote	353	6	2.7	323	2	AH1747	B. subtilis ferric
281	6	2.7	281	2	AE2104	conserved hypothet	354	6	2.7	324	2	S36646	integrin-associate
282	6	2.7	281	2	AC1490	conserved hypothet	355	6	2.7	324	2	T21043	hypothetical prote
283	6	2.7	281	2	AF1129	conserved hypothet	356	6	2.7	325	2	AH1312	transcription regu
284	6	2.7	282	2	T37144	probable oxidoredu	357	6	2.7	325	2	AH1684	probable ABC trans
285	6	2.7	285	2	A36819	C9 protein - rabbi	358	6	2.7	326	2	B90841	probable ABC trans
286	6	2.7	286	2	I38246	signal sequence re	359	6	2.7	326	2	T34594	probable ABC trans
287	6	2.7	286	2	S08993	conserved hypothet	360	6	2.7	326	2	A85699	probable ABC trans
288	6	2.7	286	2	A95875	conserved hypothet	361	6	2.7	327	2	A97024	probable membrane
289	6	2.7	289	2	S17161	dodecenoyl-CoA del	362	6	2.7	329	2	H64705	conserved hypothet
290	6	2.7	289	2	A45369	insect-selective n	363	6	2.7	329	2	H71815	hypothetical prote
291	6	2.7	290	2	JC5017	calcium-modulating	364	6	2.7	329	2	AC2144	hypothetical prote
292	6	2.7	291	2	S16950	toxin Txp-I precu	365	6	2.7	330	2	D87068	hypothetical prote
293	6	2.7	291	2	B81130	conserved hypothet	366	6	2.7	330	2	AF3258	hypothetical prote
294	6	2.7	291	2	H81836	probable integral	367	6	2.7	330	2	D87393	hypothetical prote
295	6	2.7	291	2	F70745	hypothetical prote	368	6	2.7	330	2	T35360	probable membrane
296	6	2.7	292	2	AG3524	high-affinity bran	369	6	2.7	331	2	S01964	readthrough protei
297	6	2.7	293	2	E69174	succinate-CoA liga	370	6	2.7	331	2	S72868	hypothetical prote
298	6	2.7	293	2	A84110	sugar ABC transpor	371	6	2.7	331	2	E97628	hypothetical prote
299	6	2.7	293	2	T49734	probable methyltra	372	6	2.7	332	2	AH2593	cytochrome o ubiqu
300	6	2.7	293	2	T33952	actin depolymerizi	373	6	2.7	332	2	A49947	interferon gamma r
301	6	2.7	293	2	AH0143	probable membrane	374	6	2.7	332	2	F90225	alcohol dehydrogen
302	6	2.7	294	2	B83040	ribosomal protein	375	6	2.7	333	2	AH3185	zinc-binding dehyd
303	6	2.7	294	2	S32947	hupK protein - Rho	376	6	2.7	333	2	G72024	glycerol-3-phospha
304	6	2.7	295	2	S49261	ornithine carbamoy	377	6	2.7	334	2	E86597	glycerol-3-P dehyd
305	6	2.7	295	2	T46051	MYB-like protein -	378	6	2.7	334	2	A95234	catabolite control
306	6	2.7	296	2	S47594	cyclophilin B-bind	379	6	2.7	336	2	S10337	hypothetical prote
307	6	2.7	297	2	F69054	cobalamin biosynth	380	6	2.7	338	2	AB3453	prolyl aminopeptid
308	6	2.7	297	2	T06685	hypothetical prote	381	6	2.7	342	2	T35354	probable myo-inosi
309	6	2.7	298	1	I64085	rare protein homol	382	6	2.7	343	2	S75435	hypothetical prote
310	6	2.7	298	2	E97544	permease of ABC zi	383	6	2.7	343	2	A71556	B. subtilis Ykrp p
311	6	2.7	298	2	IS1410	transcription fact	384	6	2.7	343	2	F75541	ABC transporter, p
312	6	2.7	299	2	T34987	probable integral	385	6	2.7	345	2	S72490	N-acetyl-gamma-glu
313	6	2.7	301	2	T19672	hypothetical prote	386	6	2.7	345	2	T12339	NADH2 dehydrogenas
314	6	2.7	302	2	F75159	hypothetical prote	387	6	2.7	345	2	B97066	aldose-1-epimerase
315	6	2.7	302	2	T02480	sec13-related/prot	388	6	2.7	345	2	S92336	probable transpos
316	6	2.7	304	2	E82830	conserved hypothet	389	6	2.7	346	2	A36491	catabolite control
317	6	2.7	305	2	AG0013	1,4-dihydroxy-2-na	390	6	2.7	346	2	C98098	conserved hypothet
318	6	2.7	306	2	A43922	gravin - human (fr	391	6	2.7	348	2	A12600	conserved hypothet
319	6	2.7	306	2	T35089	probable integral	392	6	2.7	350	2	S22456	hydroxyproline-ric
320	6	2.7	306	2	C70410	hypothetical prote	393	6	2.7	350	2	S61581	hypothetical prote
321	6	2.7	306	2	B75129	thiamin biosynthes	394	6	2.7	351	1	A48763	transcription fact

395	6	2.7	353	2	T09887	DNA-binding protei	468	6	2.7	404	2	G72106	hypothetical prote
396	6	2.7	355	2	H71656	translation releas	469	6	2.7	405	1	H70752	cytochrome P450 Rv
397	6	2.7	355	2	T15797	hypothetical prote	470	6	2.7	405	2	A12934	chromate transport
398	6	2.7	355	2	H83166	conserved hypotet	471	6	2.7	405	2	A83038	hypothetical prote
399	6	2.7	356	2	AG1321	E. coli DNA-damage	472	6	2.7	405	2	A95880	conserved hypotet
400	6	2.7	356	2	AH1692	G4. coli DNA-damage	473	6	2.7	407	2	G81010	hypothetical wd-40
401	6	2.7	358	2	D86289	GA4 protein [impor	474	6	2.7	408	2	T38386	hypothetical prote
402	6	2.7	359	2	F69061	hypothetical prote	475	6	2.7	408	2	G69819	Na+/H+ antiporter
403	6	2.7	359	2	T47770	hypothetical prote	476	6	2.7	408	2	A45721	MFS permease limpo
404	6	2.7	360	2	A72423	D-mannanase hydrol	477	6	2.7	408	2	AH2699	probable transport
405	6	2.7	363	2	B64807	abrB protein - Esc	478	6	2.7	409	2	F98347	hypothetical prote
406	6	2.7	363	2	D90721	probable transport	479	6	2.7	409	2	F98934	hypothetical prote
407	6	2.7	363	2	B85572	probable transport	480	6	2.7	409	2	G81422	probable Na+/H+ an
408	6	2.7	364	1	PWSFG	H+-transporting tw	481	6	2.7	410	2	T37078	probable WRKY-type
409	6	2.7	365	2	S70994	cell surface adhes	482	6	2.7	410	2	C84638	probable O-antigen
410	6	2.7	367	1	WOHU9	alpha-2-HS-glycopr	483	6	2.7	410	2	AH0051	homeotic protein H
411	6	2.7	367	2	A81069	tRNA (5-methylamin	484	6	2.7	411	2	S34164	macrolide-efflux p
412	6	2.7	367	2	D82763	UDP-N-acetylglucos	485	6	2.7	412	2	AH3274	conserved hypotet
413	6	2.7	367	2	E69072	hypothetical prote	486	6	2.7	413	2	D83310	cycH protein - Par
414	6	2.7	367	2	S44967	lmbQ protein - Str	487	6	2.7	413	2	S61305	hypothetical prote
415	6	2.7	367	2	B87239	pyridine transhydr	488	6	2.7	413	2	T34123	hypothetical prote
416	6	2.7	367	2	S14795	transcription fact	489	6	2.7	414	2	E83489	conserved hypotet
417	6	2.7	368	2	C90011	mannitol-1-phospha	490	6	2.7	414	2	G89924	corticotropin-rele
418	6	2.7	369	2	F85904	hypothetical prote	491	6	2.7	415	2	S95335	corticotropin-rele
419	6	2.7	370	2	D90096	hypothetical prote	492	6	2.7	415	2	I58144	hypothetical prote
420	6	2.7	371	2	B97383	hypothetical prote	493	6	2.7	415	2	F77558	homeotic protein H
421	6	2.7	372	2	F64310	hypothetical prote	494	6	2.7	416	2	S27198	3-isopropylmalate
422	6	2.7	372	2	T50071	hypothetical prote	495	6	2.7	416	2	G69524	homeotic protein H
423	6	2.7	373	2	T22365	hypothetical prote	496	6	2.7	417	2	S47539	CEM-1 protein - Ca
424	6	2.7	374	2	H87698	DNA-cytosine methy	497	6	2.7	418	2	S55018	3-isopropylmalate
425	6	2.7	374	2	D95388	probable acetylorn	498	6	2.7	419	2	D69051	Kan-1 protein - ra
426	6	2.7	375	2	I38879	alpha-N-acetylneur	500	6	2.7	420	2	S59131	hypothetical prote
427	6	2.7	376	2	JC5600	conserved hypotet	501	6	2.7	420	2	T46460	hypothetical prote
428	6	2.7	377	1	D69027	cytochrome ba(3) (	502	6	2.7	421	2	C64475	hypothetical prote
429	6	2.7	377	2	B97376	probable exported	503	6	2.7	422	2	A71147	hypothetical prote
430	6	2.7	379	2	AB2930	coronafacic acid s	504	6	2.7	424	2	G64362	aconitate hydratati
431	6	2.7	380	2	JC5747	fibromodulin - chi	505	6	2.7	424	2	T07366	conserved hypotet
432	6	2.7	380	2	S71876	hypothetical prote	506	6	2.7	424	2	B99262	portal protein gp3
433	6	2.7	380	2	H95362	N-acetylglucosamin	507	6	2.7	424	2	S54390	hypothetical prote
434	6	2.7	380	2	AB1709	beta-lactamase (EC	508	6	2.7	426	2	H87507	conserved hypotet
435	6	2.7	381	1	PNKEM	hypothetical prote	509	6	2.7	426	2	D71367	hypothetical trans
436	6	2.7	381	2	H86856	hypothetical prote	510	6	2.7	426	2	D95893	3-oxoacyl-acyl car
437	6	2.7	381	2	B85060	tRNA (5-methylamin	511	6	2.7	427	2	T38909	probable transmembr
438	6	2.7	381	2	H81798	hypothetical prote	512	6	2.7	428	2	H75333	3-isopropylmalate
439	6	2.7	383	2	F87360	hypothetical prote	513	6	2.7	428	2	E97481	hypothetical prote
440	6	2.7	383	2	T55819	villin 3 homolog F	514	6	2.7	428	2	A69085	sugar-binding prot
441	6	2.7	384	2	T35075	probable integral	515	6	2.7	428	2	AD2938	chloramphenicol re
442	6	2.7	384	2	S64735	retrovirus-related	516	6	2.7	430	2	C98344	integral membrane
443	6	2.7	385	2	D98352	hypothetical prote	517	6	2.7	431	2	A99203	probable citrate t
444	6	2.7	385	2	AH2200	two-component hybr	518	6	2.7	432	2	H75622	glycine dehydrogen
445	6	2.7	387	2	AB3335	sugar transport sy	519	6	2.7	432	2	C82963	citrate transpor
446	6	2.7	388	2	AH1950	carbamoyl phosphat	520	6	2.7	433	2	G72403	probable permease
447	6	2.7	388	2	G84368	hypothetical prote	521	6	2.7	437	2	H81041	serine-tRNA ligase
448	6	2.7	389	2	AH9789	hypothetical prote	522	6	2.7	437	2	G82032	probable MFS trans
449	6	2.7	389	2	AH3083	chloramphenicol re	523	6	2.7	438	2	T31430	ammonium transport
450	6	2.7	393	2	T15703	hypothetical prote	524	6	2.7	438	2	H83556	probable membrane
451	6	2.7	393	2	S23481	benE protein - Aci	525	6	2.7	439	2	B75487	hypothetical prote
452	6	2.7	394	2	AH2859	MFS permease limpo	526	6	2.7	441	2	T36253	transcription fact
453	6	2.7	396	2	F97636	probable transport	527	6	2.7	442	2	H72209	conserved hypotet
454	6	2.7	397	2	C81851	acetylornithine tr	528	6	2.7	443	1	I38239	hypothetical prote
455	6	2.7	397	2	H71327	probable efflux pr	529	6	2.7	443	2	D83265	C4-dicarboxylate t
456	6	2.7	397	2	G95850	hypothetical prote	530	6	2.7	444	2	AB3209	corticoliberin rec
457	6	2.7	397	2	H81090	acetylornithine am	531	6	2.7	444	2	S27384	glutamate dehydrog
458	6	2.7	398	2	T02161	hypothetical prote	532	6	2.7	444	2	A48260	embryonic TEA doma
459	6	2.7	398	2	JC4215	T-cell reactive pr	533	6	2.7	445	2	H83072	two-component sens
460	6	2.7	399	2	T46526	probable hydroxyla	534	6	2.7	445	2	A57400	probable oxidoredu
461	6	2.7	400	2	B75297	probable arginine	535	6	2.7	445	2	G83529	probable aldolase
462	6	2.7	402	2	D70602	dipeptidyl peptida	536	6	2.7	447	2	T35824	probable nucleotid
463	6	2.7	402	2	B75297	indoleamine-pyrrol	537	6	2.7	448	2	AB0265	hypothetical prote
464	6	2.7	403	2	PC1161	nitrate transpor	538	6	2.7	448	2	D83145	bacteriocin 28b -
465	6	2.7	403	2	C83422	hypothetical prote	539	6	2.7	449	2	A47676	
466	6	2.7	404	2	F86517		540	6	2.7	449	2		
467	6	2.7	404	2				6	2.7	449	2		



687	6	2.7	605	2	C90613	NADH dehydrogenase	760	6	2.7	684	2	A53019	collagen alpha 1(X
688	6	2.7	605	2	T11529	NADH2 dehydrogenas	761	6	2.7	684	2	T36771	probable integral
689	6	2.7	605	2	C90623	NADH2 dehydrogenas	762	6	2.7	684	2	T32024	hypothetical prote
690	6	2.7	605	2	T11085	NADH2 dehydrogenas	763	6	2.7	685	1	A47102	system b(0,+)-amin
691	6	2.7	606	1	QXBO5M	NADH2 dehydrogenas	764	6	2.7	685	2	JC6331	rho-type guanine e
692	6	2.7	606	2	T11503	NADH2 dehydrogenas	765	6	2.7	687	2	B81027	glycyl-tRNA synthe
693	6	2.7	606	2	T11150	NADH2 dehydrogenas	766	6	2.7	687	2	G81970	probable glycine-t
694	6	2.7	606	2	T11334	NADH2 dehydrogenas	767	6	2.7	687	2	T02459	probable beta-amyl
695	6	2.7	606	2	CS8851	NADH2 dehydrogenas	768	6	2.7	691	2	D96805	probable acyl-CoA
696	6	2.7	606	2	S41830	NADH2 dehydrogenas	769	6	2.7	694	2	S73403	fructose-permease
697	6	2.7	606	2	T45560	NADH2 dehydrogenas	770	6	2.7	700	2	A84243	phosphoribosylform
698	6	2.7	606	2	T45560	NADH2 dehydrogenas	771	6	2.7	702	2	D83205	probable oxidoredu
699	6	2.7	606	2	T10982	NADH2 dehydrogenas	772	6	2.7	703	2	H86349	protein F8K7.9 lim
700	6	2.7	606	2	C90627	NADH2 dehydrogenase	773	6	2.7	704	2	AE2107	serine/threonine k
701	6	2.7	606	2	C75431	GTP-binding transl	774	6	2.7	705	1	WZBED8	gene 45 protein -
702	6	2.7	607	1	QXWS5M	NADH2 dehydrogenas	775	6	2.7	706	2	T42589	gene 45 protein -
703	6	2.7	607	2	T11032	NADH2 dehydrogenas	776	6	2.7	709	2	E82298	polyribonucleotide
704	6	2.7	607	2	S36006	NADH2 dehydrogenas	777	6	2.7	709	2	S38883	polyribonucleotide
705	6	2.7	609	2	S04757	NADH2 dehydrogenas	778	6	2.7	710	2	S04128	phenylalanine ammo
706	6	2.7	609	2	T11310	NADH2 dehydrogenas	779	6	2.7	715	2	A97449	methyl-accepting c
707	6	2.7	609	2	T11774	NADH2 dehydrogenas	780	6	2.7	720	2	E84456	probable acyl-CoA
708	6	2.7	610	2	T11544	NADH2 dehydrogenas	781	6	2.7	721	2	E82198	probable toxin sec
709	6	2.7	611	2	CS8893	NADH2 dehydrogenas	782	6	2.7	725	2	S38087	hypothetical prote
710	6	2.7	611	2	T11297	NADH2 dehydrogenas	783	6	2.7	725	2	S13426	multidrug resistanc
711	6	2.7	611	2	S68138	NADH2 dehydrogenas	784	6	2.7	726	1	UYFVS1	noncapsid protein
712	6	2.7	611	2	S19434	probable transport	785	6	2.7	726	2	T34638	hypothetical prote
713	6	2.7	612	2	S35471	NADH2 dehydrogenas	786	6	2.7	729	2	A49120	fibroblast growth
714	6	2.7	612	2	T14101	NADH2 dehydrogenas	787	6	2.7	734	2	B70173	methionine-tRNA li
715	6	2.7	612	2	T14104	NADH2 dehydrogenas	788	6	2.7	737	1	S14408	translation elonga
716	6	2.7	612	2	T09867	NADH2 dehydrogenas	789	6	2.7	742	2	T35650	probable ATP-depen
717	6	2.7	612	2	T09867	NADH2 dehydrogenas	790	6	2.7	747	2	D75436	ATP-dependent Clp
718	6	2.7	612	2	T09957	NADH2 dehydrogenas	791	6	2.7	747	2	T40728	hypothetical prote
719	6	2.7	613	2	T11464	NADH2 dehydrogenas	792	6	2.7	753	2	T46614	chemotaxis protein
720	6	2.7	613	2	T00448	hypothetical prote	793	6	2.7	754	2	S41391	gelsoilin - America
721	6	2.7	613	2	I39295	X-linked PEST-cont	794	6	2.7	756	2	S53373	gelsoilin - America
722	6	2.7	615	2	G83419	probable binding p	795	6	2.7	756	2	H75016	hypothetical prote
723	6	2.7	616	2	S33908	glucan 1,4-alpha-g	796	6	2.7	759	2	E84854	probable copper am
724	6	2.7	616	2	H84474	probable Athila re	797	6	2.7	760	2	T01441	hypothetical prote
725	6	2.7	616	2	A12851	hypothetical prote	798	6	2.7	769	2	F81415	DNA topoisomerase
726	6	2.7	617	1	RNVJ7A	transcription init	799	6	2.7	778	2	H96649	protein F2401.4 [i
727	6	2.7	617	2	AF1284	5-methyltetrahydro	800	6	2.7	784	2	E72515	probable DNA-direc
728	6	2.7	617	2	A11655	5-methyltetrahydro	801	6	2.7	784	2	E72515	hypothetical prote
729	6	2.7	618	2	T05518	hypothetical prote	802	6	2.7	793	2	T24270	pyruvate, water di
730	6	2.7	619	2	F82984	hypothetical prote	803	6	2.7	794	2	AB0294	glucose dehydrogen
731	6	2.7	621	1	S20145	replication factor	804	6	2.7	796	2	H85495	glucose dehydrogen
732	6	2.7	623	2	G64571	conserved hypotet	805	6	2.7	797	2	D86269	hypothetical prote
733	6	2.7	623	2	C71865	hypothetical prote	806	6	2.7	797	2	T33673	hypothetical prote
734	6	2.7	624	2	S64118	probable membrane	807	6	2.7	802	2	A83125	probable TonB-depe
735	6	2.7	627	2	S48968	NDR80 protein - ye	808	6	2.7	808	1	QPKEX	glucose dehydrogen
736	6	2.7	630	2	H89056	protein K09H11.4 [	809	6	2.7	809	2	B87260	sensory box/GDEF
737	6	2.7	631	2	H96763	feebly-like protei	810	6	2.7	812	2	H87386	hypothetical prote
738	6	2.7	632	2	S68599	phosphotransferase	811	6	2.7	812	2	AC3304	non-motile and pha
739	6	2.7	633	2	G97628	ATP-binding protei	812	6	2.7	813	2	AC3304	type I restriction
740	6	2.7	636	2	T35182	probable ABC-type	813	6	2.7	815	2	C71810	3-hydroxyacyl-CoA
741	6	2.7	640	2	S62747	homeotic protein A	814	6	2.7	815	2	E70021	endopeptidase [imp
742	6	2.7	641	2	PH1919	FL-160-4 protein -	815	6	2.7	818	2	F89819	leucyl-tRNA synthe
743	6	2.7	643	2	S70592	NADH2 dehydrogenas	816	6	2.7	819	2	G81698	leucine-tRNA ligas
744	6	2.7	645	2	T28867	hypothetical prote	817	6	2.7	819	2	C71544	leucyl tRNA synthe
745	6	2.7	647	2	AE1054	2',3'-cyclic-nucle	818	6	2.7	820	2	A86510	leucine-tRNA ligas
746	6	2.7	649	2	AB0493	methyl-accepting c	819	6	2.7	820	2	C72113	hypothetical prote
747	6	2.7	656	2	B82056	glutathione-regula	820	6	2.7	823	2	A96501	probable integral
748	6	2.7	656	2	D96831	hypothetical prote	821	6	2.7	823	2	T35280	endothelin convert
749	6	2.7	662	2	F90442	hypothetical prote	822	6	2.7	825	2	I46078	DNA-binding protei
750	6	2.7	671	2	T02504	hypothetical prote	823	6	2.7	827	2	S50714	hypothetical prote
751	6	2.7	672	2	A56765	sodium-glucose cot	824	6	2.7	836	2	T42323	DNA topoisomerase
752	6	2.7	672	2	A42251	nucleoside transpo	825	6	2.7	839	2	S32158	DNA topoisomerase
753	6	2.7	672	2	F71424	hypothetical prote	826	6	2.7	840	2	C83378	probable ATP-depen
754	6	2.7	673	2	AD2667	chemotaxis methyl-	827	6	2.7	842	2	C81396	alanine-tRNA ligas
755	6	2.7	676	2	A40363	DNA ligase (NAD) (	828	6	2.7	845	2	S32819	translation elonga
756	6	2.7	676	2	T34029	hypothetical prote	829	6	2.7	855	2	B83193	DNA mismatch repai
757	6	2.7	678	2	S67136	hypothetical prote	830	6	2.7	855	2	A53296	DNA mismatch repai
758	6	2.7	678	1	B75360	2',3'-cyclic-nucle	831	6	2.7	860	2	JC5986	A-kinase anchoring
759	6	2.7	683	1	A41785	system b(0,+) amin	832	6	2.7	863	1	S51789	VLDL receptor prec



833	6	2.7	863	2	G96964	probable permease, DNA topoisomerase	906	6	2.7	1317	2	T14595	polyprotein - maiz
834	6	2.7	865	2	H81749	alanine-tRNA ligase	907	6	2.7	1334	2	T19493	hypothetical prote
835	6	2.7	877	2	H71647	probable large pro	908	6	2.7	1345	2	T41960	major capsid prote
836	6	2.7	880	2	T02245	hypothetical prote	909	6	2.7	1366	2	T35985	probable large pro
837	6	2.7	883	2	A84210	hypothetical prote	910	6	2.7	1370	1	VCBECA	major capsid prote
838	6	2.7	883	2	C83385	hypothetical prote	911	6	2.7	1370	2	T03120	major capsid prote
839	6	2.7	888	2	B71280	probable antibioti	912	6	2.7	1371	1	VCBEW7	major capsid prote
840	6	2.7	891	2	B82495	probable NADH dehy	913	6	2.7	1381	2	S55619	capsid protein 25
841	6	2.7	892	2	T50985	related to transcr	914	6	2.7	1382	1	INHRUR	inulin receptor p
842	6	2.7	894	2	F84870	hypothetical prote	915	6	2.7	1396	1	VCBE40	major capsid prote
843	6	2.7	905	2	G84582	hypothetical prote	916	6	2.7	1396	2	A4453	translation initia
844	6	2.7	905	2	A82892	hypothetical prote	917	6	2.7	1402	2	A46707	translation initia
845	6	2.7	905	2	C97668	ABC transporter re	918	6	2.7	1420	2	T37781	probable cytoskele
846	6	2.7	910	2	C69069	cation-transportin	919	6	2.7	1442	2	S72441	protein-tyrosine-p
847	6	2.7	916	2	T03323	gene l16 protein -	920	6	2.7	1446	1	A45344	immediate-early pr
848	6	2.7	920	2	T41050	conserved hypothet	921	6	2.7	1460	1	EDBE1F	immediate-early pr
849	6	2.7	929	2	H84582	hypothetical prote	922	6	2.7	1460	2	D81675	polymorphic membra
850	6	2.7	943	2	JE0121	hypothetical 107.4	923	6	2.7	1468	2	S58250	DNA-directed DNA p
851	6	2.7	944	2	H64650	translation initia	924	6	2.7	1471	2	T40117	myosin-2 isoform -
852	6	2.7	949	2	E71940	translation initia	925	6	2.7	1473	2	T38791	probable ferredoxi
853	6	2.7	950	2	E70203	exonuclease SbcC (	926	6	2.7	1501	2	T29094	ribulose-bisphosph
854	6	2.7	966	2	T50668	villin 3 (imported	927	6	2.7	1503	2	T43166	alpha-2-macroglobu
855	6	2.7	984	1	A34076	protein-tyrosine k	928	6	2.7	1532	2	A26039	IgA-specific metal
856	6	2.7	986	2	A87590	hypothetical prote	929	6	2.7	1547	2	A12043	hypothetical prote
857	6	2.7	992	1	GNWVR3	structural polypro	930	6	2.7	1592	2	T32633	probable transport
858	6	2.7	995	2	C83203	probable serine pr	931	6	2.7	1655	2	A60272	hypothetical prote
859	6	2.7	996	2	S70646	transcription fact	932	6	2.7	1668	2	A60272	IgA-specific metal
860	6	2.7	1002	2	S70292	FUN12 protein - ye	933	6	2.7	1684	2	JW0057	gravin - human
861	6	2.7	1004	2	A48821	Wnt-5 protein - fr	934	6	2.7	1690	2	T40847	probable rRNA biog
862	6	2.7	1008	2	T30544	major surface glyc	935	6	2.7	1773	2	T05128	hypothetical prote
863	6	2.7	1012	2	S68259	DNA polymerase gam	936	6	2.7	1787	2	AC2009	serine/threonine k
864	6	2.7	1013	2	JQ1920	DNA-directed DNA p	937	6	2.7	1800	2	A11918	serine/threonine k
865	6	2.7	1014	2	T30431	DNA-directed DNA p	938	6	2.7	1804	2	AF2250	serine/threonine k
866	6	2.7	1015	1	G70389	formate dehydrogen	939	6	2.7	1825	2	S13507	microtubule-associ
867	6	2.7	1021	2	I39207	leukocyte surface	940	6	2.7	1830	2	A37981	microtubule-associ
868	6	2.7	1023	1	A24639	Na+/K+-exchanging	941	6	2.7	1882	2	T00089	hypothetical prote
869	6	2.7	1027	2	H87370	alpha-L-rhamnosida	942	6	2.7	1884	1	A45353	genome polyprotein
870	6	2.7	1045	2	S23570	pol polyprotein ho	943	6	2.7	1885	2	JQ2183	hypothetical 216.5
871	6	2.7	1048	2	S27763	Ca2+-transporting	944	6	2.7	1963	2	B98002	IgA-specific metal
872	6	2.7	1048	2	T04172	Ca2+-transporting	945	6	2.7	2004	2	F95133	immunoglobulin A1
873	6	2.7	1051	2	A35761	cell surface glyco	946	6	2.7	2014	2	S46622	probable membrane
874	6	2.7	1051	2	A40021	integrin alpha-3 c	947	6	2.7	2073	2	T39207	fatty acid synthas
875	6	2.7	1053	2	I55534	VLA-3 alpha subuni	948	6	2.7	2073	2	T43311	fatty-acyl-CoA syn
876	6	2.7	1054	2	T01556	Ca2+-transporting	949	6	2.7	2108	2	H70819	probable polyketid
877	6	2.7	1056	2	T02930	lysine-ketoglutar	950	6	2.7	2109	2	I38414	transcription fact
878	6	2.7	1063	1	GNWV77	structural polypro	951	6	2.7	2128	2	I52577	beta-spectrin - mo
879	6	2.7	1063	1	GNWVR4	structural polypro	952	6	2.7	2143	2	G96595	hypothetical prote
880	6	2.7	1063	1	GNWVR4	structural polypro	953	6	2.7	2205	1	MMWVRN	nonstructural poly
881	6	2.7	1063	2	T03743	bifocal protein -	954	6	2.7	2298	2	T49648	hypothetical prote
882	6	2.7	1065	1	RNLVB	DNA-directed RNA p	955	6	2.7	2352	2	C83229	probable non-ribos
883	6	2.7	1068	2	B81965	probable outer mem	956	6	2.7	2464	1	QRMSP1	microtubule-associ
884	6	2.7	1082	2	H81020	serotype-1-specifi	957	6	2.7	2684	2	A96521	protein F21D18.22
885	6	2.7	1099	2	I46497	bumetanide-sensiti	958	6	2.7	2685	2	T38755	hypothetical prote
886	6	2.7	1099	2	I46498	bumetanide-sensiti	959	6	2.7	2693	2	A40743	IP3 receptor, XIP3
887	6	2.7	1099	2	I46496	bumetanide-sensiti	960	6	2.7	2706	2	T28155	variant-specific s
888	6	2.7	1099	2	T03037	rexB protein - lac	961	6	2.7	2723	2	T03221	probable polyketid
889	6	2.7	1120	2	F90693	mechanosensitive c	962	6	2.7	2970	2	T08839	polyprotein - maxm
890	6	2.7	1120	2	B85544	mechanosensitive c	963	6	2.7	3005	2	T08841	polyprotein - dour
891	6	2.7	1120	2	H64776	probable membrane	964	6	2.7	3263	2	B82410	hypothetical prote
892	6	2.7	1122	2	T47424	hypothetical prote	965	6	2.7	3335	2	H81702	adherence factor T
893	6	2.7	1126	2	A96032	probable two-compo	966	6	2.7	3388	1	GNWVDP	genome polyprotein
894	6	2.7	1160	2	T23713	hypothetical prote	967	6	2.7	3390	1	GNWVD3	genome polyprotein
895	6	2.7	1205	2	A55015	bumetanide-sensiti	968	6	2.7	3391	1	GNWVJA	genome polyprotein
896	6	2.7	1207	2	T00378	KIAA0641 protein -	969	6	2.7	3421	1	W2BEB6	367K tegument prot
897	6	2.7	1212	2	A57187	bumetanide-sensiti	970	6	2.7	3433	1	S28381	utrophin - human
898	6	2.7	1221	2	E83327	conserved hypothet	971	6	2.7	3488	2	T34418	hypothetical prote
899	6	2.7	1224	2	E71611	hypothetical prote	972	6	2.7	3534	2	T42567	tegument protein 2
900	6	2.7	1246	2	S56752	helicase SKI2w - h	973	6	2.7	3864	2	D87757	protein C44E4.1a [
901	6	2.7	1274	2	T25024	hypothetical prote	974	6	2.7	4574	2	G02520	plectin - human
902	6	2.7	1286	2	T23714	hypothetical prote	975	6	2.7	4684	2	A59404	plectin [imported]
903	6	2.7	1290	2	AE2192	two-component hybr	976	6	2.7	5032	1	A35041	ryanodine receptor
904	6	2.7	1298	2	B83175	phosphoribosylform	977	6	2.7	5035	1	I46646	ryanodine receptor
905	6	2.7	1314	2	A85176	hypothetical prote	978	6	2.7	5037	2	B35041	ryanodine receptor

hypothetical prote

## ALIGNMENTS

RESULT 1

AH1247

hypothetical protein lmc1384 [imported] - *Listeria monocytogenes* (strain EGD-e)

C:Species: *Listeria monocytogenes*

C:Date: 27-Nov-2001 #sequence\_revision 27-Nov-2001 #text\_change 09-Jul-2004

C:Accession: AH1247

C:R:Glaser, P.; Frangeul, L.; Buchrieser, C.; Amend, A.; Baquero, F.; Berche, P.; Bloeker, H.; Dominguez-Bernal, G.; Duchaud, E.; Durand, L.; Dussurget, O.; Entian, K.D.; Fsihi, H.; Jones, L.M.; Karst, U.

Science 294, 849-852, 2001

A:Authors: Kreft, J.; Kuhn, M.; Kunst, F.; Kurapkut, G.; Madueno, E.; Maitournam, A.; Makok, C.; Schluerter, T.; Simoes, N.; Tierrez, A.; Vazquez-Boland, J.A.; Voss, H.; Wehlund, A.; Title: Comparative genomics of *Listeria* species.

A:Reference number: AB1077; MUID:21537279; PMID:11679669

A:Accession: AH1247

A:Status: preliminary

A:Molecule type: DNA

A:Residues: 1-319 <GLA>

A:Cross-references: UNIPROT:Q9Y7A4; GB:NC\_003210; PIDN:CAC99462.1; PID:gi61410800; GSPDB:1000000000

A:Experimental source: strain EGD-e

C:Genetics:

C:Gene: lmc1384

C:Superfamily: *Escherichia coli* yceA protein

Query Match 3.6%; Score 8; DB 2; Length 319;  
Best Local Similarity 100.0%; Pred. NO. 4.1;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	33	EALLDEDT	40
D <sub>b</sub>	121	EALLDEDT	128

RESULT 2  
F84278  
3-phosphoshikimate 1-carboxyvinyltransferase [imported] - Halobacterium sp. NRC-1  
C/Species: Halobacterium sp. NRC-1  
C/Date: 02-Feb-2001 #sequence\_revision 02-Feb-2001 #text\_change 09-Jul-2004  
C/Accession: F84278  
R/NG: W.V.; Kennedy, S.P.; Mahairas, G.G.; Berquist, B.; Pan, M.; Shukla, H.D.; Lasky, S.;  
Leithausen, B.; Keller, K.; Cruz, R.; Danson, M.J.; Hough, D.W.; Maddocks, D.G.; Jabad  
Jung, K.H.; Alam, M.; Freitas T.  
Proc. Natl. Acad. Sci. U.S.A. 97, 12176-12181, 2000  
A/Authors: Hou, S.; Daniels, C.J.; Dennis, P.P.; Omer, A.D.; Ebhardt, H.; Lowe, T.M.; Li  
A/Title: Genome sequence of Halobacterium species NRC-1.  
A/Reference number: A84160; MUID:20504483; PMID:11016950  
A/Accession: F84278  
A/Status: preliminary  
A/Molecule type: DNA  
A/Residues: 1-439 <STO>  
A/Cross-references: UNIPROT:Q9HCQ1; GB:AE004437; NID:g10580760; PIDN:AA019594.1; GSPDB:G  
C/Genetics:  
A/Gene: psc  
A/Superfamily: 3-phosphoshikimate 1-carboxyvinyltransferase; 3-phosphoshikimate 1-carboxy

Query Match	3.6%	Score 8;	DB 2;	Length 439;
Best Local Similarity	100.0%	Pred. No. 5.5;		
Matches	8..	Conservative	0: Mismatches	0: Indels
				0: Gaps

Qy 4 TMRLVTAA 11  
D<sub>b</sub> 102 TMRLVTAA 109

RESULT 3  
A43364  
M polynprotein precursor - Duche virus (strain ArD 44313)

N;Contains: glycoprotein G1; glycoprotein G2  
C;Species: dugbe virus  
C;Date: 30-Sep-1993 #sequence\_revision 30-Sep-1993 #text\_change 09-Jul-2004  
C;Accession: A43364; B43364  
R;Marriott, A.C.; El-Ghorr, A.A.; Nuttall, P.A.  
Virology 190, 606-615, 1992  
A;Title: Dugbe nairovirus M RNA: nucleotide sequence and coding strategy.  
A;Reference number: A43364; MUID:92391077; PMID:1387749  
A;Accession: A43364  
A;Molecule type: genomic RNA  
A;Residues: 1-1551 <MA1>  
A;Cross-references: UNIPROT:Q02004; GB:M94133; NID:g323680; PIDN:AAA42974.1  
A;Accession: B43364  
A;Molecule type: protein  
A;Residues: 897-905 <MA2>  
C;Genetics:

A; Map position: segment M  
C; Superfamily: Nairovirus M polyprotein  
C; Keywords: glycoprotein; polyprotein; transmembrane protein  
F; 1-17/Domain: signal sequence #status predicted <SIG>  
F; 18-896/Product: glycoprotein G1 #status predicted <GP1>  
F; 831-847/Domain: transmembrane G2 status predicted <TM1>  
F; 897-1551/Product: glycoprotein G2 #status predicted <GP2>  
F; 1452-1468/Domain: transmembrane #status predicted <TM2>  
F; 1452-1468/Domain: transmembrane #status predicted <TM2>

Query Match 3.6%; Score 8; DB 1; Length 1551;  
Best Local Similarity 100.0%; Pred. No. 17;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 LVTAALLL 14  
|||  
Db 718 LVTAALLL 725

## RESULT 4

S10682  
 cytochrome P450 isoform 4 - chicken (fragment)  
 N:Contains: oxidoreductase (EC 1.-.-.-)  
 C:Species: Gallus gallus (chicken)  
 C:Date: 23-Apr-1993 #sequence\_revision 23-Apr-1993 #text\_change 16-Aug-2004  
 C:Accession: S10682  
 R:Singclair, J.F.; Wood, S.; Lambrecht, L.; Gorman, N.; Mende-Mueller, L.; S.  
 Bichem, J. 269, 85-91, 1990  
 A:Title: Isolation of four forms of acetone-induced cytochrome P-450 in chi  
 A:Reference number: S10680: MUID:90328998: PMID:23375760

Query Match 3.1%; Score 7; DB 2; Length 24;  
Best Local Similarity 100.0%; Pred. No. 4.2;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 VTAALL 14  
|||  
Db 3 VTAALL 9

## RESULT 5

probable 7-ethoxycoumarin O-deethylase (EC 1.14.14.-) cytochrome P450 isoform 3 - chicken  
 S10681  
 C.Species: gallus gallus (chicken)  
 C.Date: 23-Apr-1993 #sequence\_revision 23-Apr-1993 #text\_change 16-Aug-2004  
 C.Accession: S10681  
 R.Sinclair, J.F.; Wood, S.; Lambrecht, L.; Gorman, N.; Mende-Mueller, L.; Smith, L.; Hun  
 Biochem. J. 269, 85-91, 1990  
 A.Title: Isolation of four forms of acetone-induced cytochrome P-450 in chicken liver by  
 A.Reference number: S10680; MUID:90328998; PMID:2375760  
 A.Accession: S10681  
 A.Molecule type: protein

A;Residues: 1-24 <SIN>  
A;Cross-references: UNIPROT:Q9PS43; UNIPROT:Q9PRV4  
A;Note: sequence extracted from NCB1 backbone (NCBIP:113919)  
C;Superfamily: cytochrome P450 homology  
C;Keywords: electron transfer; endoplasmic reticulum; heme; membrane protein; monooxygenase

Query Match 3.1%; Score 7; DB 2; Length 24;  
Best Local Similarity 100.0%; Pred. No. 4.2;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 VTALLL 14  
| | | | |  
Db 3 VTALLL 9

RESULT 6  
aminopyrine N-demethylase (EC 1.14.14.-) cytochrome P450 PB-A - chicken. (fragment)  
N;Alternate names: 7-ethoxycoumarin O-deethylase; phenobarbital-induced 52 kDa cytochrome  
C;Species: Gallus gallus (chicken)  
C;Date: 31-Dec-1993 #sequence revision 03-Feb-1994 #text\_change 09-Jul-2004  
C;Accession: C4107; A61056; S13263  
R;Nakai, K.; Ward, A.M.; Gannon, M.; Rifkind, A.B.  
J. Biol. Chem. 267, 19503-19512, 1992  
A;Title: Beta-naphthoflavone induction of a cytochrome P-450 arachidonic acid epoxigenase  
A;Reference number: A44107; MUID:92406903; PMID:1527070  
A;Accession: C4107  
A;Molecule type: protein  
A;Residues: 1-26 <NAK>  
A;Cross-references: UNIPROT:Q9PS43  
A;Experimental source: embryo liver  
A;Note: sequence extracted from NCB1 backbone (NCBIP:113920)  
R;Gupta, R.P.; Lapadula, D.M.; Abou-Donia, M.B.  
Comp. Biochem. Physiol. C 96, 163-176, 1990  
A;Title: Purification and characterization of cytochrome P-450 isozymes from phenobarbital  
A;Reference number: A61056; MUID:91130218; PMID:1980873  
A;Accession: A61056  
A;Molecule type: protein  
A;Residues: 1-19 <GUP>  
R;Gupta, R.P.; Lapadula, D.M.; Abou-Donia, M.B.  
Arch. Biochem. Biophys. 282, 170-182, 1990  
A;Title: Purification and characterization of cytochrome P450 isozymes from beta-naphthoflavone  
A;Accession: S13263  
A;Molecule type: protein  
A;Residues: 1-24 <GUP>  
C;Superfamily: unassigned cytochrome P450; cytochrome P450 homology  
C;Keywords: electron transfer; endoplasmic reticulum; heme; membrane protein; monooxygenase

Query Match 3.1%; Score 7; DB 2; Length 26;  
Best Local Similarity 100.0%; Pred. No. 4.5;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 VTALLL 14  
| | | | |  
Db 3 VTALLL 9

RESULT 7  
cytochrome P450 NF3, beta-naphthoflavone-induced (N-terminal) - chicken (fragment)  
N;Contains: oxidoreductase (EC 1.-.-.-)  
C;Species: Gallus gallus (chicken)  
C;Date: 27-Apr-1993 #sequence\_revision 20-Aug-1994 #text\_change 09-Jul-2004  
C;Accession: B44107  
R;Nakai, K.; Ward, A.M.; Gannon, M.; Rifkind, A.B.  
J. Biol. Chem. 267, 19503-19512, 1992  
A;Title: Beta-naphthoflavone induction of a cytochrome P-450 arachidonic acid epoxigenase  
A;Reference number: A44107; MUID:92406903; PMID:1527070  
A;Accession: B44107  
A;Molecule type: protein  
A;Residues: 1-26 <NAK>

A;Cross-references: UNIPROT:Q9PS44  
A;Experimental source: embryo liver  
A;Note: sequence extracted from NCB1 backbone (NCBIP:113919)  
C;Superfamily: unassigned cytochrome P450; cytochrome P450 homology  
C;Keywords: electron transfer; heme; monooxygenase; oxidoreductase

Query Match 3.1%; Score 7; DB 2; Length 26;  
Best Local Similarity 100.0%; Pred. No. 4.5;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 VTALLL 14  
| | | | |  
Db 3 VTALLL 9

RESULT 8  
aminopyrine N-demethylase (EC 1.14.14.-) cytochrome P450 betaNF-A1 - chicken (fragment)  
N;Alternate names: 7-ethoxycoumarin O-deethylase  
C;Species: Gallus gallus (chicken)  
C;Date: 07-May-1993 #sequence\_revision 07-May-1993 #text\_change 16-Aug-2004  
C;Accession: S29135  
R;Gupta, R.P.; Lapadula, D.M.; Abou-Donia, M.B.  
Arch. Biochem. Biophys. 282, 170-182, 1990  
A;Title: Purification and characterization of cytochrome P450 isozymes from beta-naphthoflavone  
A;Reference number: S13263; MUID:91024193; PMID:2171427  
A;Accession: S29135  
A;Molecule type: protein  
A;Residues: 1-28 <GUP>  
C;Superfamily: cytochrome P450 homology  
C;Keywords: electron transfer; endoplasmic reticulum; heme; membrane protein; monooxygenase

Query Match 3.1%; Score 7; DB 2; Length 28;  
Best Local Similarity 100.0%; Pred. No. 4.9;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 VTALLL 14  
| | | | |  
Db 3 VTALLL 9

RESULT 9  
aminopyrine N-demethylase (EC 1.14.14.-) cytochrome P450 betaNF-A2 - chicken (fragment)  
N;Alternate names: 7-ethoxycoumarin O-deethylase  
C;Species: Gallus gallus (chicken)  
C;Date: 07-May-1993 #sequence\_revision 07-May-1993 #text\_change 16-Aug-2004  
C;Accession: S29136  
R;Gupta, R.P.; Lapadula, D.M.; Abou-Donia, M.B.  
Arch. Biochem. Biophys. 282, 170-182, 1990  
A;Title: Purification and characterization of cytochrome P450 isozymes from beta-naphthoflavone  
A;Reference number: S13263; MUID:91024193; PMID:2171427  
A;Accession: S29136  
A;Molecule type: protein  
A;Residues: 1-28 <GUP>  
A;Cross-references: UNIPROT:Q7LZ56  
C;Superfamily: cytochrome P450 homology  
C;Keywords: electron transfer; endoplasmic reticulum; heme; membrane protein; monooxygenase

Query Match 3.1%; Score 7; DB 2; Length 28;  
Best Local Similarity 100.0%; Pred. No. 4.9;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 VTALLL 14  
| | | | |  
Db 3 VTALLL 9

RESULT 10  
C83344  
hypothetical protein PA2405 [imported] - Pseudomonas aeruginosa (strain PAO1)  
C;Species: Pseudomonas aeruginosa  
C;Date: 15-Sep-2000 #sequence\_revision 15-Sep-2000 #text\_change 09-Jul-2004

C;Accession: C83344  
R;Stover, C.K.; Pham, X.Q.; Erwin, A.L.; Mizoguchi, S.D.; Warren, P.; Hickey, M.J.; B.  
adman, S.; Yuan, Y.; Coulter, L.L.; Folger, K.R.; Kas, A.; Larbig, K.; Lim,  
.; Lory, S.; Olson, M.V.  
Nature 406, 959-964, 2000  
A;Title: Complete genome sequence of *Pseudomonas aeruginosa* PA01, an opportunistic patho  
A;Reference number: A82950; MUID:20437337; PMID:10984043  
A;Accession: C83344  
A;Status: preliminary  
A;Molecule type: DNA  
A;Residues: 1-109 <STO>  
A;Cross-references: UNIPROT:Q91176; GB:AE004668; GB:AE004091; NID:G9948446; PIDN:AAG0579  
A;Experimental source: strain PA01  
C;Genetics:  
A;Gene: PA2405

Query Match 3.1%; Score 7; DB 2; Length 109;  
Best Local Similarity 100.0%; Pred. No. 17;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 10 AALLGL 16  
|||||  
Db 13 AALLGL 19

RESULT 11  
S40503  
beta-1-adrenergic receptor - bovine (fragment)  
C;Species: Bos primigenius taurus (cattle)  
C;Date: 07-Oct-1994 #sequence\_revision 08-Nov-1996 #text\_change 09-Jul-2004  
C;Accession: S40503  
R;Castella, L.; Muzzin, P.; Revelli, J.P.; Ricquier, D.; Giacobino, J.P.  
Biochem. J. 297, 93-97, 1994  
A;Title: Expression of beta(1)- and beta(3)-adrenergic-receptor messages and adenylyate c  
ite fat.  
A;Reference number: S40503; MUID:94107292; PMID:7904157  
A;Accession: S40503  
A;Status: nucleic acid sequence not shown; not compared with conceptual translation  
A;Molecule type: DNA  
A;Residues: 1-110 <CAS>  
A;Cross-references: UNIPROT:Q9TS16  
C;Superfamily: vertebrate rhodopsin  
C;Keywords: G protein-coupled receptor; glycoprotein; transmembrane protein

Query Match 3.1%; Score 7; DB 2; Length 110;  
Best Local Similarity 100.0%; Pred. No. 17;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 97 PDAPSRA 103  
|||||  
Db 96 PDAPSRA 102

RESULT 12  
A83896  
hypothetical protein BH1969 [imported] - *Bacillus halodurans* (strain C-125)  
C;Species: *Bacillus halodurans*  
C;Date: 01-Dec-2000 #sequence\_revision 01-Dec-2000 #text\_change 09-Jul-2004  
C;Accession: A83896  
R;Takami, H.; Nakasone, K.; Takaki, Y.; Maeno, G.; Sasaki, R.; Masui, N.; Fujii, F.; Hira  
Nucleic Acids Res. 28, 4317-4331, 2000  
A;Title: Complete genome sequence of the alkaliphilic bacterium *Bacillus halodurans* and  
A;Reference number: A83650; MUID:20512582; PMID:11058132  
A;Accession: A83896  
A;Status: preliminary  
A;Molecule type: DNA  
A;Residues: 1-119 <STO>  
A;Cross-references: UNIPROT:Q9KBF9; GB:AP001513; GB:BA000004; NID:G10174345; PIDN:BA056  
A;Experimental source: strain C-125  
C;Genetics:  
A;Gene: BH1969

Query Match 3.1%; Score 7; DB 2; Length 119;  
Best Local Similarity 100.0%; Pred. No. 17;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Best Local Similarity 100.0%; Pred. No. 18;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 VTAALL 14  
|||||  
Db 8 VTAALL 14

RESULT 13  
T52448  
flowering locus T protein, splice variant 2 [validated] - *Arabidopsis thaliana*  
N;Alternate names: FT protein  
C;Species: *Arabidopsis thaliana* (mouse-ear cress)  
C;Date: 24-Oct-2000 #sequence\_revision 24-Oct-2000 #text\_change 09-Jul-2004  
C;Accession: T52448  
R;Kobayashi, Y.; Kaya, H.; Goto, K.; Iwabuchi, M.; Araki, T.  
Science 286, 1960-2, 1999  
A;Title: A pair of related genes with antagonistic roles in mediating flowering signals  
A;Reference number: Z25350; MUID:20050959; PMID:10583960  
A;Accession: T52448  
A;Status: preliminary; translated from GB/EMBL/DBJ  
A;Molecule type: mRNA  
A;Residues: 1-122 <KOB>  
A;Cross-references: UNIPROT:Q9SXZ2; EMBL:AB027505; PIDN:BAA77839.1  
A;Experimental source: cultivar Landsberg erecta  
C;Genetics:  
A;Gene: FT  
C;Function:  
A;Description: promotes flowering [validated, MUID:20050958]  
A;Note: is positively regulated by transcription factor CONSTANS

Query Match 3.1%; Score 7; DB 2; Length 122;  
Best Local Similarity 100.0%; Pred. No. 19;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 92 LVMVDP 98  
|||||  
Db 67 LVMVDP 73

RESULT 14  
PC4214  
phosphatidylethanolamine binding protein Ovd3 - nematode (*Onchocerca volvulus*) (fragment  
C;Species: *Onchocerca volvulus*  
C;Date: 17-Dec-1996 #sequence\_revision 21-Jan-1997 #text\_change 09-Jul-2004  
C;Accession: PC4214  
R;Ertmann, K.D.; Gallin, M.Y.  
Gene 174, 203-207, 1996  
A;Title: *Onchocerca volvulus*: Identification of cDNAs encoding a putative phosphatidyl-e  
A;Reference number: PC4214; MUID:97045813; PMID:8890735  
A;Accession: PC4214  
A;Molecule type: mRNA  
A;Residues: 1-134 <ERT>  
A;Cross-references: UNIPROT:P54188; EMBL:X87989; NID:G1143530; PID:G1143531  
C;Genetics:  
A;Introns: 34/3; 52/2; 81/1; 129/3  
C;Superfamily: *Caenorhabditis elegans* hypothetical protein Y69E1A.5

Query Match 3.1%; Score 7; DB 2; Length 134;  
Best Local Similarity 100.0%; Pred. No. 20;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 96 DPAPSR 102  
|||||  
Db 35 DPAPSR 41

RESULT 15  
A38845  
flagellar protein required for flagellar formation flilL - *Bacillus subtilis*  
N;Alternate names: Flil protein homolog  
C;Species: *Bacillus subtilis*  
C;Date: 24-Jul-1992 #sequence\_revision 24-Jul-1992 #text\_change 09-Jul-2004

C:Accession: A38845; A39136; H69624; S14503  
 R:Albertini, A.M.; Caramori, T.; Crabb, W.D.; Scoffone, F.; Galizzi, A.  
 J. Bacteriol. 173, 3573-3579, 1991  
 A:Title: The flhA locus of *Bacillus subtilis* is part of a large operon coding for flagellin  
 A:Reference number: A42365; MUID:91258343; PMID:1828465  
 A:Accession: A38845  
 A:Status: preliminary  
 A:Molecule type: DNA  
 A:Residues: 1-140 <ALB>  
 A:Cross-references: UNIPROT:P23452; EMBL:X56049; NID:G39904; PIDN:CAA39529.1; PID:G39913  
 R:Zuberi, A.R.; Bischoff, D.S.; Ordal, G.W.  
 J. Bacteriol. 173, 710-719, 1991  
 A:Title: Nucleotide sequence and characterization of a *Bacillus subtilis* gene encoding a flagellin  
 A:Reference number: A39136; MUID:91100360; PMID:1898932  
 A:Accession: A39136  
 A:Status: preliminary  
 A:Molecule type: DNA  
 A:Residues: 57-140 <ZUB>  
 A:Cross-references: GB:M37691; NID:G142920; PIDN:AAA22445.1; PID:G142921  
 R:Kunst, F.; Ogasawara, N.; Moszer, I.; Albertini, A.M.; Alloni, G.; Azevedo, V.; Bertero, C.; Bron, S.; Brouillet, S.; Bruschi, C.V.; Caldwell, B.; Capuano, V.; Carter, N.M.; Chennoufi, A.; Ehrlich, S.D.; Emerson, P.T.; Entian, K.D.; Errington, J.; Fabret, C.; Ferrari, E.; Nature 390, 249-256, 1997  
 A:Authors: Fritz, C.; Fujita, M.; Fujita, Y.; Fuma, S.; Galizzi, A.; Galleron, N.; Ghim, wood, C.R.; Henaut, A.; Hilbert, H.; Holsappel, S.; Hosono, S.; Hullo, M.F.; Itaya, M.; Koningsstein, G.; Krogh, S.; Kumano, M.; Kurita, K.; Lapidus, A.; Lardinois, S.; Lauber, A:Authors: Lazarevic, V.; Lee, S.M.; Levine, A.; Liu, H.; Masuda, S.; Maueel, C.; Medigu, K.; Ogiwara, A.; Oudega, B.; Park, S.H.; Parro, V.; Pohl, T.M.; Portetelle, D.; Porwol, Rivolta, C.; Rocha, E.; Roche, B.; Rose, M.; Sadaie, Y.; Sato, T.; Scanlon, E.; Schleic, A:Authors: Schroeter, R.; Scoffone, F.; Sekiguchi, J.; Sekowska, A.; Seror, S.J.; Serro, anakoshi, A.; Tanaka, T.; Terpstra, P.; Tognoni, A.; Tosato, V.; Uchiyama, S.; Vandenbol, ; Wipat, A.; Yamamoto, H.; Yamane, K.; Yasumoto, K.; Yata, K.; Yoshida, K.; Yoshikawa, A:Authors: Zumstein, E.; Yoshikawa, H.; Danchin, A.  
 A:Title: The complete genome sequence of the Gram-positive bacterium *Bacillus subtilis*.  
 A:Reference number: A69580; MUID:98044033; PMID:9384377  
 A:Accession: H69624  
 A:Status: nucleic acid sequence not shown; translation not shown  
 A:Molecule type: DNA  
 A:Residues: 1-140 <KUN>  
 A:Cross-references: GB:Z99112; GB:AL009126; NID:G2633902; PIDN:CAB13503.1; PID:G2634002  
 A:Experimental source: strain 168  
 C:Genetics:  
 A:Gene: flhL  
 C:Superfamily: flagellar formation protein flhL  
 C:Keywords: flagellar rotation

Query Match 3.1% Score 7; DB 2; Length 140;  
 Best Local Similarity 100.0%; Pred. No. 21;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 155 YLQEGKV 161  
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 Db 123 YLQEGKV 129

Search completed: January 31, 2005, 15:12:28  
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